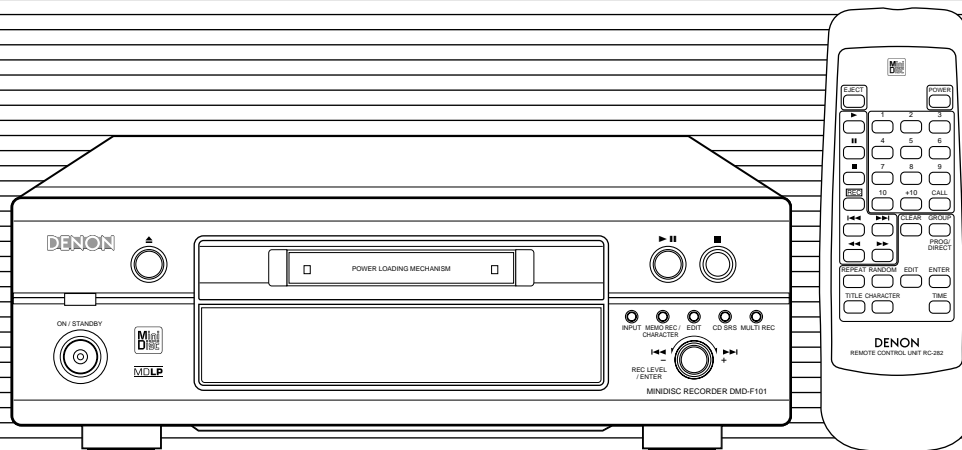


DENON

MINIDISC RECORDER

DMD-F101

OPERATING INSTRUCTIONS





CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

• DECLARATION OF CONFORMITY

We declare under our sole responsibility that this product, to which this declaration relates, is in conformity with the following standards:
EN60065, EN55013, EN55020, EN61000-3-2 and EN61000-3-3.
Following the provisions of 73/23/EEC, 89/336/EEC and 93/68/EEC Directive.

CLASS 1 LASER PRODUCT

"CLASS 1
LASER PRODUCT"



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

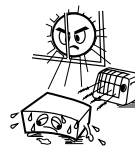


The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

CAUTION

- The ventilation should not be impeded by covering the ventilation openings with items, such as newspapers, table-cloths, curtains, etc.
- No naked flame sources, such as lighted candles, should be placed on the apparatus.
- Please be care the environmental aspects of battery disposal.
- The apparatus shall not be exposed to dripping or splashing for use.
- No objects filled with liquids, such as vases, shall be placed on the apparatus.

NOTE ON USE



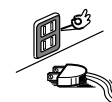
- Avoid high temperatures. Allow for sufficient heat dispersion when installed on a rack.



- Handle the power cord carefully. Hold the plug when unplugging the cord.



- Keep the set free from moisture, water, and dust.



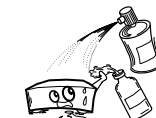
- Unplug the power cord when not using the set for long periods of time.



- * (For sets with ventilation holes)
- Do not obstruct the ventilation holes.



- Do not let foreign objects in the set.

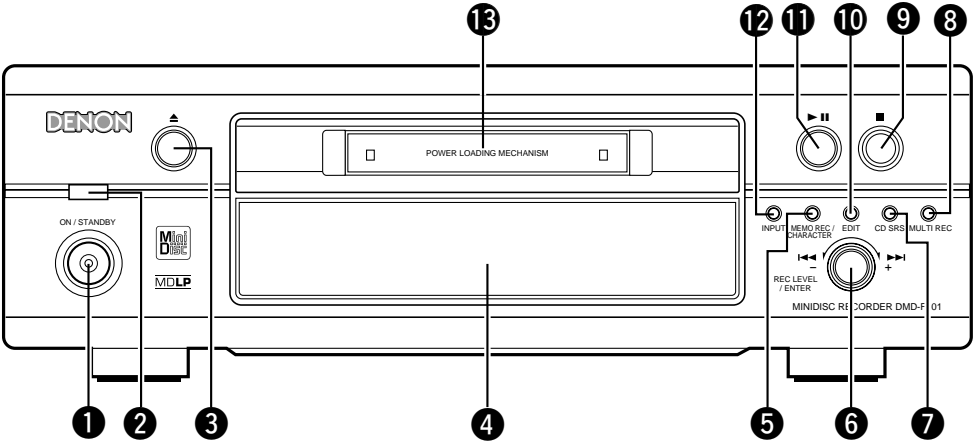


- Do not let insecticides, benzene, and thinner come in contact with the set.

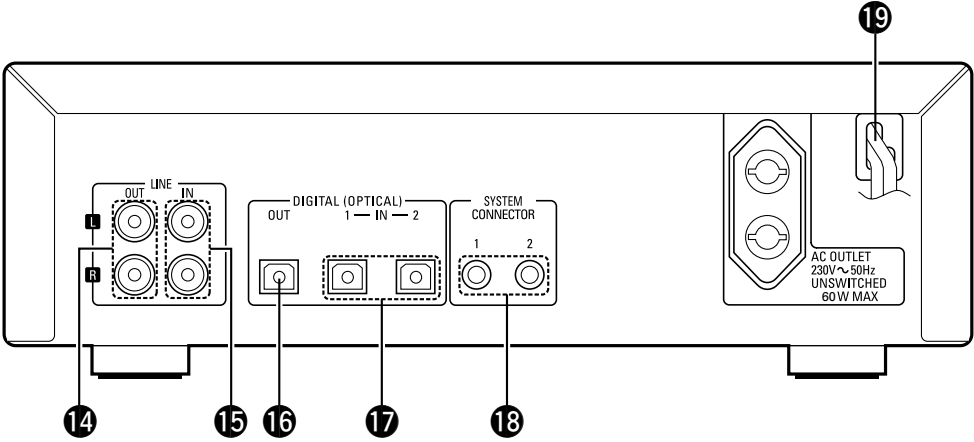


- Never disassemble or modify the set in any way.

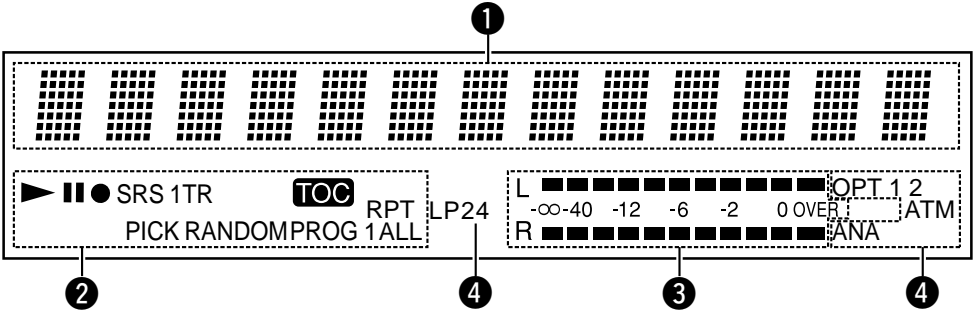
FRONT PANEL



REAR PANEL



DISPLAY



IMPORTANT TO SAFETY

WARNING:

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

CAUTION:

1. Handle the power supply cord carefully
Do not damage or deform the power supply cord. If it is damaged or deformed, it may cause electric shock or malfunction when used. When removing from wall outlet, be sure to remove by holding the plug attachment and not by pulling the cord.
2. Do not open the top cover
In order to prevent electric shock, do not open the top cover.
3. Do not place anything inside
Do not place metal objects or spill liquid inside the MiniDisc recorder.
Electric shock or malfunction may result.

Please, record and retain the Model name and serial number of your set shown on the rating label.

Model No. DMD-F101

Serial No. _____

NOTE:

This MiniDisc recorder uses the semiconductor laser. To allow you to enjoy music at a stable operation, it is recommended to use this in a room of 10°C (50°F) — 35°C (95°F).

- Place of installation
To ensure sufficient ventilation, leave a space of at least 10 cm between the front, sides and back of the unit and walls or other objects which may obstruct ventilation.

CAUTION:

USE OF CONTROLS OR ADJUSTMENTS OR REPERMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

THE MINIDISC RECORDER SHOULD NOT BE ADJUSTED OR REPAIRED BY ANYONE EXCEPT PROPERLY QUALIFIED SERVICE PERSONNEL.

Thank you for purchasing this DENON MiniDisc recorder. Please read the operating instructions thoroughly in order to acquaint yourself with the MiniDisc recorder and achieve maximum satisfaction from it.

■ ACCESSORIES

Check that the following parts are included in the package aside from the main unit:

- | | |
|---------------------------------------|---------------------------------|
| ① Remote control unit (RC-282)..... 1 | ⑤ Optical cable..... 1 |
| ② Batteries R6P (AA) 2 | ⑥ Operating instructions..... 1 |
| ③ RCA pin plug cord 2 | ⑦ Service station list..... 1 |
| ④ System connector cable..... 1 | |



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1 FEATURES

This unit is an audio device using the MiniDisc format. Recording is possible for up to 80 minutes. Up to 320 minutes can be recorded by using the MDLP mode. Operation is the same as with regular compact discs (CDs).

- 1. Clear sound quality**
Digital recording provides clear playback sound.
- 2. Abundant playback functions**
Programmed playback, random playback, all track repeat, single track repeat, etc.
- 3. Numerous editing functions**
Editing functions for dividing, combining and moving tracks make it possible to freely manipulate recorded discs, and disc and track titles can be added. These functions make it easy to create original discs.
- 4. Sampling rate converter**
Sources with different sampling frequencies, such as DATs and satellite broadcasts (32 kHz and 48 kHz), can be recorded digitally.
- 5. Convenient system functions**
This unit is equipped for system functions allowing easy synchronized recording, timer recording/playback and auto function and auto power on operations when used in combination with the D-F101 series. In addition, system units can be operated using the system remote control unit (RC-927) included with the receiver (DRA-F101).
- 6. MDLP (MD-Long Play) compatibility**
This unit is compatible with the MDLP format, thereby allowing stereo recording/playback for double or quadruple the normal recording/playback time.
- 7. Low standby power consumption**
The power consumption when the power is in the standby mode is reduced to 1 W or less.

2 CAUTIONS ON HANDLING

Installation

Do not place a TV set (even a small one) or other object on top of this unit.

When receiving FM, AM and TV broadcasts

If this unit's power is turned on while receiving FM, AM or TV broadcasts, there may be noise in the sound or stripes on the TV picture. Keep this unit's power turned off when not using it.

This unit uses digital technology, if an FM tuner is placed nearby, it may cause adverse effects, such as noise in the tuner's antenna cable, etc.
Be sure to use coaxial cables to connect the antenna and the tuner's antenna terminal.

When not using this unit

■ Under normal circumstances

- Always remove the disc and turn the power off.
- When leaving home for long periods of times such as for trips, be sure to unplug the power cord.

■ When moving this unit

- Do not subject this unit to shocks.
- Always check that the disc has been removed and the connection cords disconnected before moving this unit.



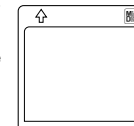
3 ABOUT MINIDISCS

- MiniDiscs are compact in size and offer a maximum playback/recording time of 80 minutes in the normal mode and up to 320 minutes in the MDLP mode (long-play mode).

There are two types of MiniDiscs: those for playback only, and those for recording and playback.

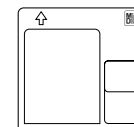
Playback only MiniDiscs

- These discs are for playback only. Commercially available music MDs are of this type.
- These are laser discs, like regular compact discs.
- Tracks on such discs cannot be edited.



Recordable MiniDiscs

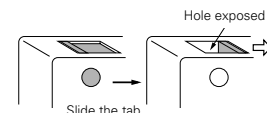
- These are magneto-optical discs on which both recording and playback are possible. Recording is performed through magnetic modulation.
- Re-recording is also possible.



Accidental erasure prevention tabs

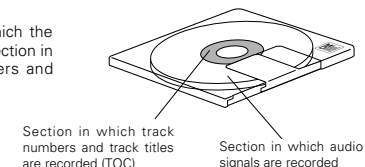
These tabs protect recordable MiniDiscs from accidental erasure.

To avoid accidentally erasing the recording, open the tab so that the hole is exposed. (See the diagram below.) When this is done, "Protected" is displayed if you attempt to record, erase or otherwise edit the disc, and the recording is protected. To record or erase the disc, set the tab back to its original position (with the hole covered).



Recording on discs

MiniDiscs include a section in which the audio signals are recorded and a section in which such data as track numbers and track titles are recorded.



■ The TOC

With MiniDiscs, after the audio signals are recorded, data used for checking the tracks (TOC — Table of Contents) is also recorded on the disc. This TOC data is used when playing the disc. In addition, editing is performed by rewriting the TOC data.

The TOC is recorded in the following cases:

- When recording is stopped.
- When the MD is ejected.
- When the power button is pressed setting the unit to the standby mode.
- When the ■ (stop) button is pressed in the stop mode.

When TOC writing starts, the "TOC" indicator flashes. Do not shake the main unit or unplug the power cord while the TOC is being written. If the data is not recorded properly, it will not be possible to play the disc.

■ Handling MiniDiscs

MiniDiscs are housed in cartridges, so there is no need to worry about dirt and scratches. However, dirty or warped cartridges may cause malfunction. Be careful of the following to ensure long-lasting, high quality sound:

- Do not touch the disc surface directly.
- Do not open the shutter by hand.
- Do not place MiniDiscs in dusty, dirty or humid places.
- Do not place MiniDiscs in places exposed to direct sunlight or high temperatures.

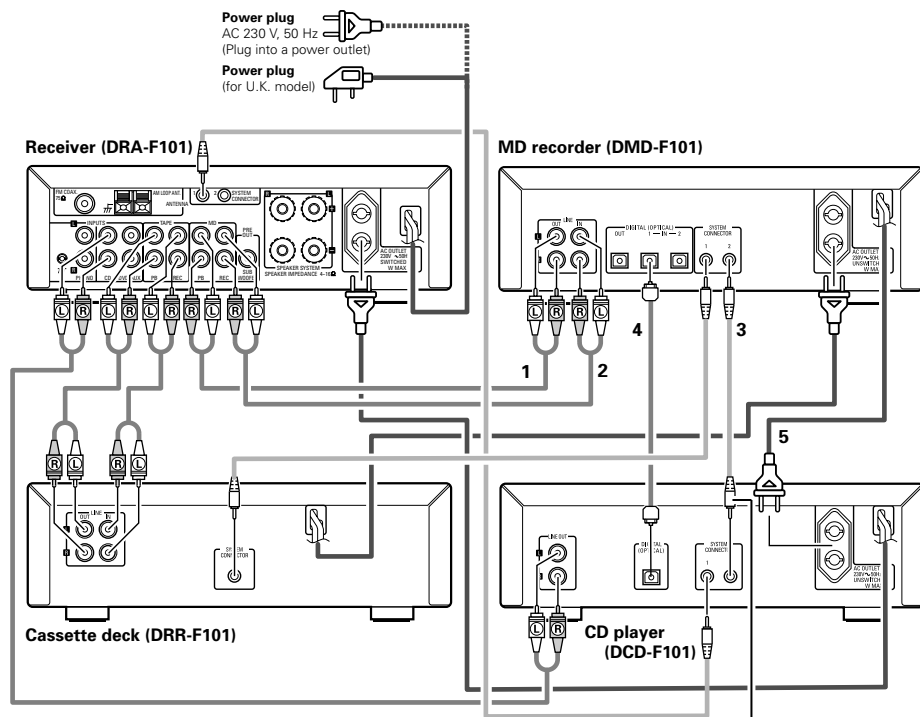
Cleaning

Use a dry cloth to gently wipe dirt or dust off the cartridge. Do not apply excessive force.

4 CONNECTIONS

Connecting to the D-F101 Series

- When connecting to a receiver other than the D-F101, there is no need to make connection 3. Note that in this case none of the system functions (auto power on, etc.) will work.
- System operations such as the auto power on function can only be used if stereo audio cords and system cords are connected between all the system components. Be sure to securely connect all the connection cords between all the units.
- Disconnecting a system cord during system operation may result in malfunction. Be sure to unplug the power cords before changing the connections.
- Install the components in such a way that the ventilation holes of the receiver (DRA-F101) are not obstructed.
- **Use the AC OUTLET for audio equipment only. Do not use them for hair driers, etc.**



Plug into the open SYSTEM CONNECTOR jack of another component. Any SYSTEM CONNECTOR jack is OK.

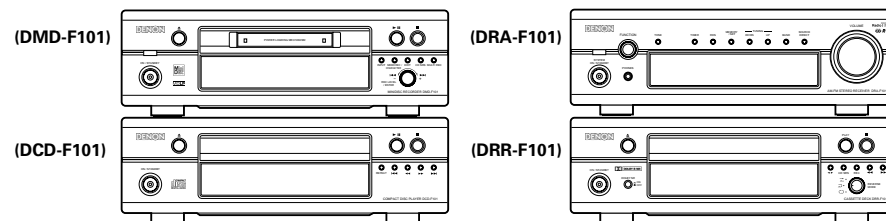
1	Connect the DMD-F101's LINE OUT jacks to the receiver's PB MD jacks using the included stereo audio cord.
2	Connect the DMD-F101's LINE IN jacks to the receiver's REC MD jacks using the included stereo audio cord.
3	Connect the DMD-F101's SYSTEM CONNECTOR jack (1 or 2) to the SYSTEM CONNECTOR jack (1 or 2) of one of the other components using the included system cord.
4	Connect the DMD-F101's optical digital input terminal (DIGITAL OPTICAL IN 1 or 2) to the digital output terminal of the CD player using optical connection cord.
5	Plug the power cord into a receiver's AC outlet or CD player's AC outlet.
* The DMD-F101 can also be used when connected to a receiver other than the one in D-F101 series. In this case, none of the system functions (auto power on, etc.) will work.	

NOTES:

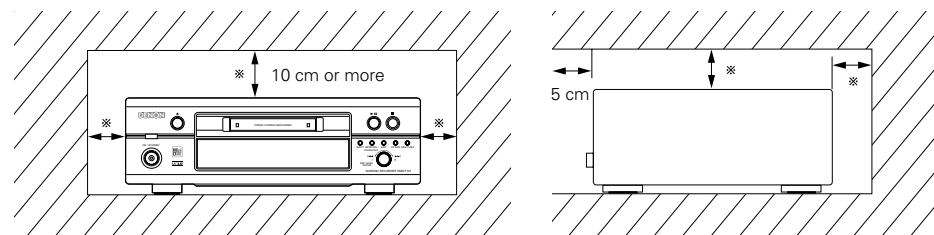
- Do not plug power cords into power outlets until all connections have been completed.
- Check the left and right channels and be sure to interconnect them correctly (L to L, R to R).
- Plug in the power cords securely. Incomplete connections will result in noise.
- Clamping the power cords and connection cords together may result in humming or noise.
- After unplugging the power cord, wait at least 5 seconds before plugging it back in.

Recommended System Installation

- To ensure performance and stability, install the D-F101 series as shown below.
- Do not place another component directly on top of the receiver (DRA-F101).
- For stability, do not stack more than three components on top of each other.



For heat dispersal, leave at least 10 cm of space between the top, back and sides of this unit and the wall or other components.



5 PART NAMES AND FUNCTIONS

(1) Front Panel

1 Power operation switch (ON/STANDBY)

- Press this button once to turn the MD recorder's power on, then press again to set the MD recorder to the standby mode.

The LED color changes as follows, according to the condition:

During power ON: green
During STANDBY: red

- A press of this button after editing has been performed results in the writing of the TOC.

2 Remote sensor

- Point the included remote control unit (RC-282) at this sensor when operating it.
- When the DMD-F101 is connected in a system with the D-F101 series, the remote control signals are received by the remote sensor on the receiver (DRA-F101).

3 Eject button

- Press this to eject the disc.
- When editing has been performed, the TOC will be written at the same time the disc is ejected.

4 Display

- See page 7.

5 Memory recording/Character button (MEMO REC/CHARACTER)

- Use this button when inputting titles to switch between capital letters, small letters and special letters.
- A press of this button in the record pause mode performs memory recording. (See Page 16.)

6 Jog dial / ENTER button (◀◀ ▶▶ I/REC LEVEL/ENTER)

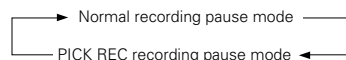
- Use this dial to find the beginning of tracks and for editing.
- Use this dial to input letters when giving titles to tracks on the disc.
- Turning the control in the record pause mode or during recording allows selection of the recording level (i.e., volume) of the input signal. (See Pages 11, 14 to 15.)
- Press the dial to enter editing settings.

7 CD SRS button (Synchronized Recording System) button

- Use this button for synchronized recording of CDs. (See Page 31.)

8 MULTI REC button

- Press this button to record.
- The recording mode switches in the following order each time this button is pressed:



- Press the PLAY/PAUSE button (II ▶ II) in the various recording pause modes to start recording.

9 Stop button

- Press this button to stop playback or recording.
- Press this button to clear the editing operation.
- A press of this button after recording or editing has been performed results in the writing of the TOC.

10 EDIT button

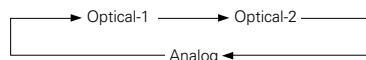
- This button is used when inputting disc and track titles and for such editing operations as erasing, dividing, combining and moving tracks.
- Press this to set the long recording mode (MDLP recording).
- Press to conduct group editing.

11 PLAY/PAUSE button

- Press this button to start playback or recording.
- Press this button to stop playback or recording temporarily.

12 INPUT button

- Use this to select the input source.
- The input mode switches in the following order each time this button is pressed:



- The input source cannot be switched during recording. To do so, first set the recording standby or stop mode.

13 Disc insertion slot

- When a disc is inserted here, it is automatically drawn into the set.
- Be sure to insert the disc in the proper direction.

Note on ejecting discs

- After pressing the eject button do not push the disc back in while it is being ejected. To reinsert the disc, wait until it comes fully out and stops, then press it back in.

(2) Rear Panel

14 LINE OUT (analog output) jacks

- Connect to the input jacks of a receiver, etc.
- To use with system connections to other units in the D-F101 series, be sure to connect to the input jacks (PB MD) of the receiver (DRA-F101).

15 LINE IN (analog input) jacks

- Connect to the output jacks of a receiver, etc.
- To use with system connections to other units in the D-F101 series, be sure to connect to the output jacks (REC MD) of the receiver (DRA-F101).

16 DIGITAL OPTICAL OUT (digital output) jack

- Digital data is output from this jack in the form of optical signals.
- When this jack is connected to the digital input (OPTICAL) jack on a digital processor or D/A unit, the sound from this unit can be heard over the speakers.
- Use the included optical connection cord or a commercially available square optical connection cord for digital audio equipment for connections to the digital input/output terminals.

17 DIGITAL OPTICAL IN (digital input) jacks

- Use this jack to input digital data.
- When connected to the optical digital output jack of a CD player, satellite broadcast tuner or another MD recorder, the sound from that unit can be recorded digitally on this unit. Press the INPUT button to set "Optical-1" when the IN1 jack is connected, "Optical-2" when the IN2 jack is connected.
- Use the included optical connection cord or a commercially available square optical connection cord for digital audio equipment for connections to the digital input/output terminals.

18 SYSTEM CONNECTOR (1 and 2)

- When using this unit in combination with the D-F101 series, connect this terminal to the system connector terminal on another unit using the included system connector cable.

19 Power cord

- Plug this cord into a wall power outlet or AC outlet of DRA-F101 or DCD-F101.
- When using in combination with the D-F101 series, connect to the AC outlet on the receiver (DRA-F101) or one of the other components in the D-F101 series.

NOTES

- When the power cord is unplugged from the power outlet as well, the DMD-F101's backup function is activated and the recorded table of contents (TOC) data is stored in the memory. The data is only backed up for 2 to 3 days, so after recording, either eject the disc immediately or press the power button to set the power to the standby mode. (In this way the TOC is written on the disc immediately.)
- The backup function is not activated for edited table of contents (TOC) data, so be sure to form the following operation after editing:
 - Press the stop button (■) to record the TOC.
 - Eject the disc.
 - Press the power button to set the power to the standby mode.
- If the backup function turns off before the TOC data is written, the contents of the recording or editing operation are cleared and cannot be retrieved. (See page 4.)

(3) Display

① Multi display

- The number of tracks, track number, playing time, title, current operation and various messages are displayed here.

② Mode indicators

- ▶ : Lights in the play mode.
Flashes during the manual search operation in the play mode.
- II : Lights in the pause mode.
Flashes during the manual search operation in the pause mode.
- : Lights in the recording and recording pause modes.

SRS/SRS 1TR:

Lights in the CD synchronized recording mode.

TOC :

Lights when the contents of the MiniDisc are being changed after the recording, erasing, title input or another editing operation has been performed.

PICK:

Lights in the PICK REC recording mode.

RANDOM:

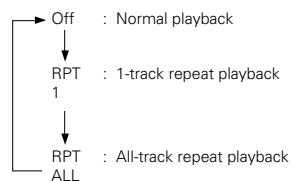
Lights in the random play mode.

PROG:

Lights during the program setting and program play modes.

RPT:

Lights as follows each time the repeat button is pressed.



③ Level meter

- Indicates the playing level in the play mode, the recording level in the recording mode.

④ Mode indicators

OPT1:

Lights when the DIGITAL OPTICAL IN 1 terminal is selected.

- * Normal recording is not possible if this indicator is flashing during the recording operation. Check the connections to the digital input terminals.

OPT2:

Lights when the DIGITAL OPTICAL IN 2 terminal is selected.

- * Normal recording is not possible if this indicator is flashing during the recording operation. Check the connections to the digital input terminals.

ANA:

Lights when the LINE IN analog input jacks are selected.

ATM:

Lights when ATM on is set during analog recording.

Also lights during digital recording.

LP2:

Lights when the LP2 recording mode (double the recording time of the normal recording mode) is selected during MDLP recording.

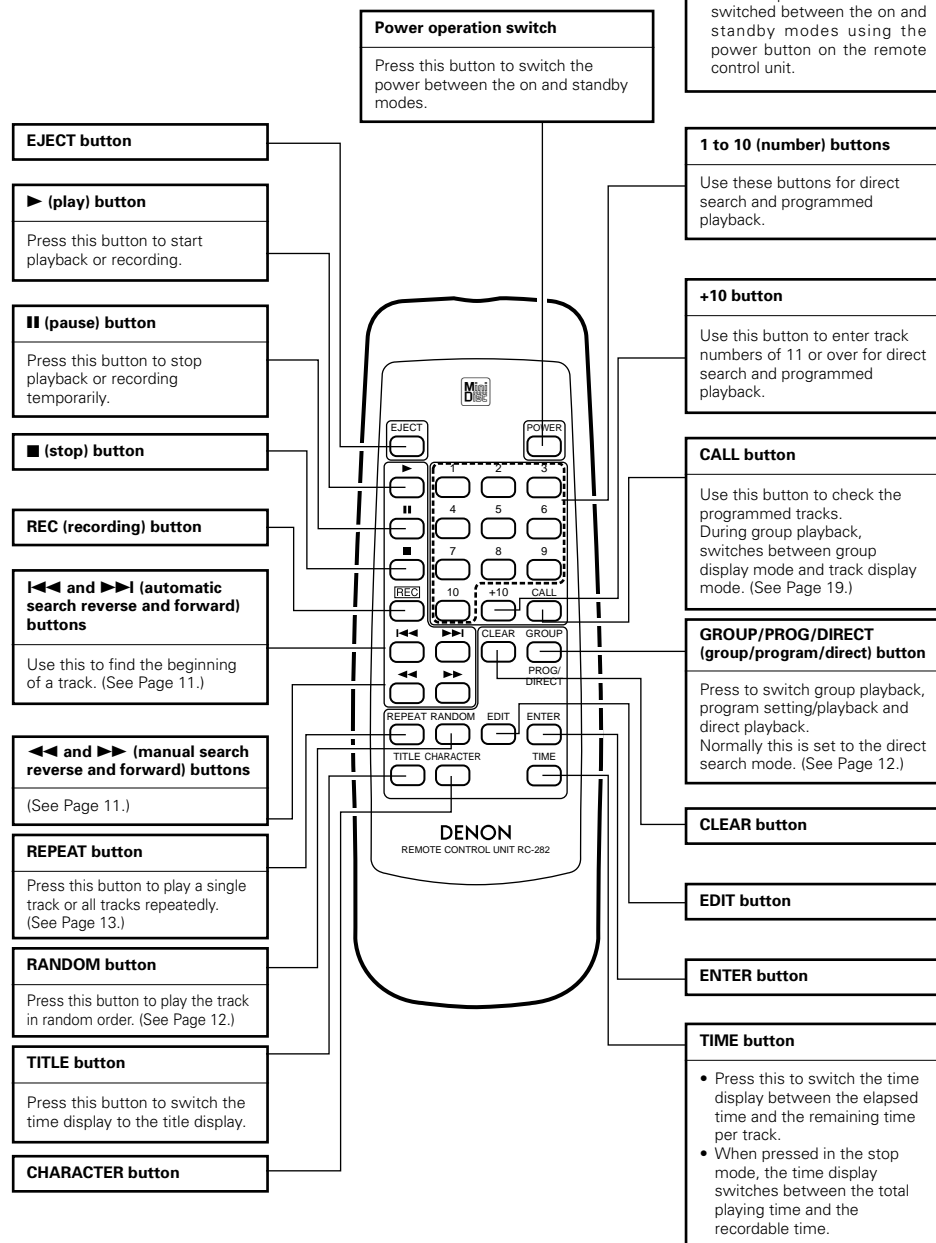
LP4:

Lights when the LP4 recording mode (quadruple the recording time of the normal recording mode) is selected during MDLP recording.

6 REMOTE CONTROL UNIT

Names and Functions of Remote Control Unit Buttons

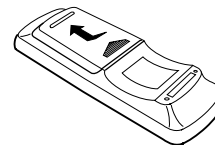
■ Buttons not explained here function in the same way as the corresponding buttons on the main unit.



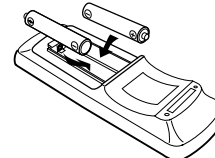
(1) Inserting the batteries

■ The included remote control unit (RC-282) can be used to operate the DMD-F101 from a distance.

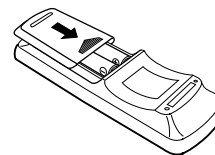
① Remove the remote control unit's back lid.



② Insert the two R6P (AA) batteries in the battery compartment, in the direction indicated by the marks inside the compartment.



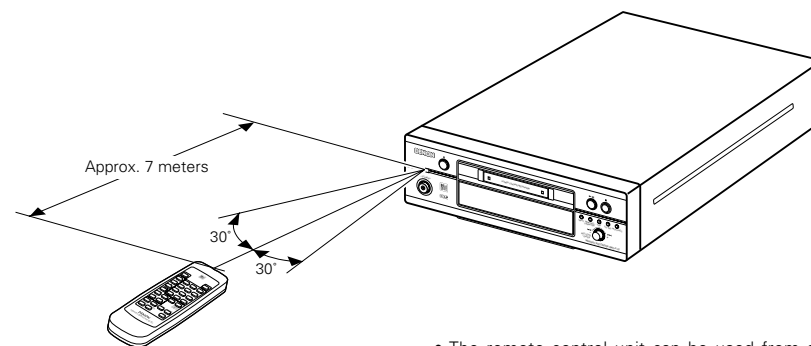
③ Put the back lid back on.



Cautions on batteries

- Use R6P (AA) batteries in the remote control unit.
- The batteries should be replaced with new ones after approximately one year, though this depends on the frequency with which the remote control unit is used.
- Even if the batteries are less than a year old, replace them with new ones if the remote control unit no longer operates even from a short distance from the main unit.
- The included battery is only for verifying operation. Replace it with a new battery as soon as possible.
- When inserting new batteries, wait about two minutes after removing the old batteries before inserting the new ones.
- Be sure to set the batteries in the proper "⊕" and "⊖" directions, as indicated by the marks in the remote control unit's battery compartment.
- Remove the batteries when not using the remote control unit for long periods of time.
- To avoid explosions and fluid leakage:
- Do not use one new battery with one old one.
- Do not use two different types of batteries.
- Do not short-circuit, disassemble, heat or dispose of batteries in flames.
- If the battery fluid should leak, wipe all the fluid off the battery compartment, then insert new batteries.

(2) Using the remote control unit



- Point the remote control unit at the remote sensor as shown on the diagram when operating it.
- When the DMD-F101 is connected in a system with the D-F101 series, the remote control signals for all the system components are received at the remote sensor of the receiver (DRA-F101).

- The remote control unit can be used from a straight distance of about 7 meters, but this distance will be shorter if there is an obstacle in the way or if the remote control unit is not pointed directly at the remote sensor.
- Use the remote control unit within a range of 30° to the left and right of the remote sensor.

NOTES:

- The remote control unit may not operate if the remote sensor is exposed to direct sunlight or strong artificial light, or if there is an obstacle between it and the remote sensor.

- Do not press buttons on the main unit and on the remote control unit at the same time. Doing so will result in malfunction.

7 SYSTEM REMOTE CONTROL UNIT

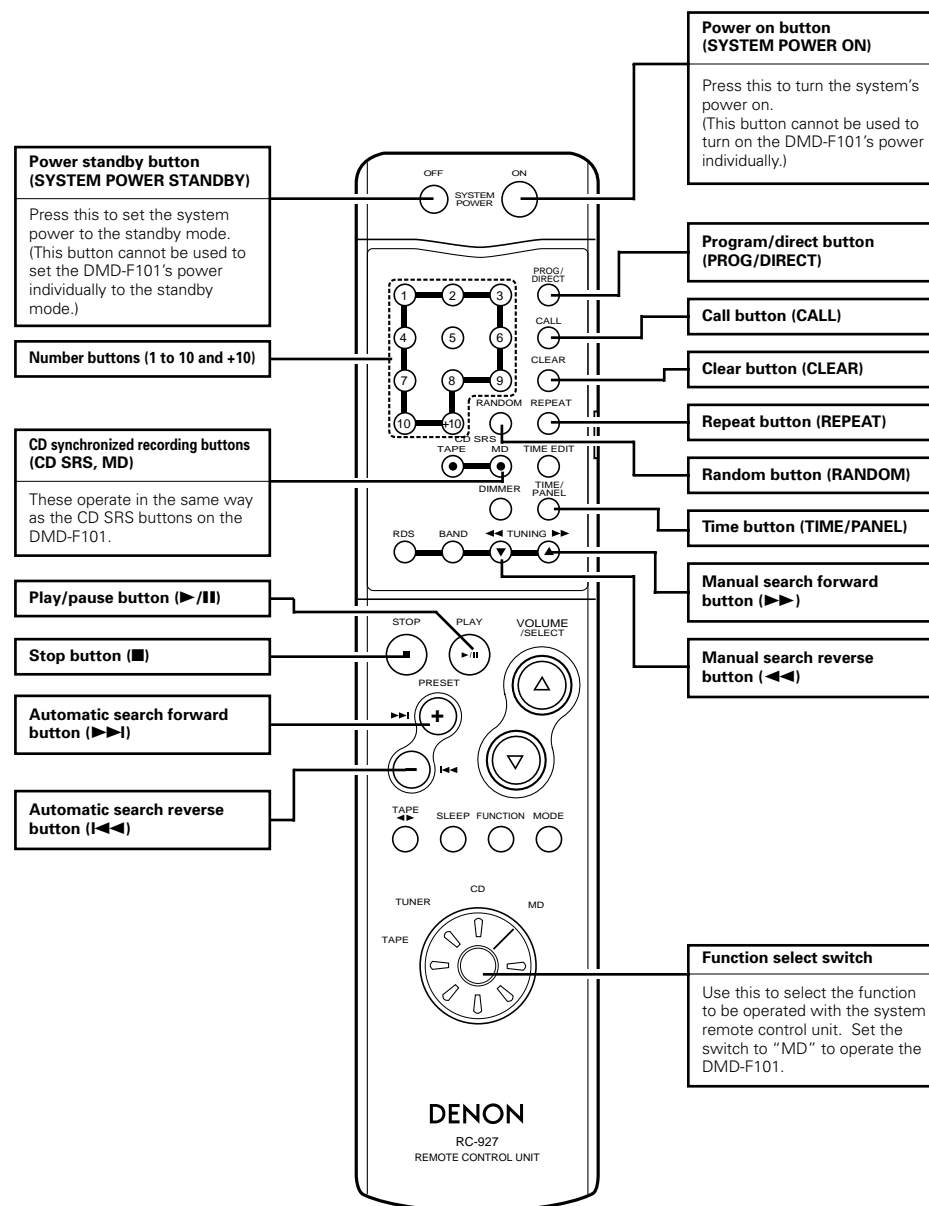
- Operation is even easier when the components in the D-F101 series are connected to the DMD-F101 with system connections. (For instructions on connections, refer to "CONNECTIONS" on page 5.)
- The system functions will only work when the components of the D-F101 series are connected. They will not work with other components. To use the system functions, connect the receiver (DRA-F101).

(1) System Remote Control

- When the DMD-F101 is used in a system with the D-F101 series, it can be operated with the system remote control unit (RC-927) included with the receiver (DRA-F101).
- When system connections are made, all the remote control signals are received at the DRA-F101 remote sensor.

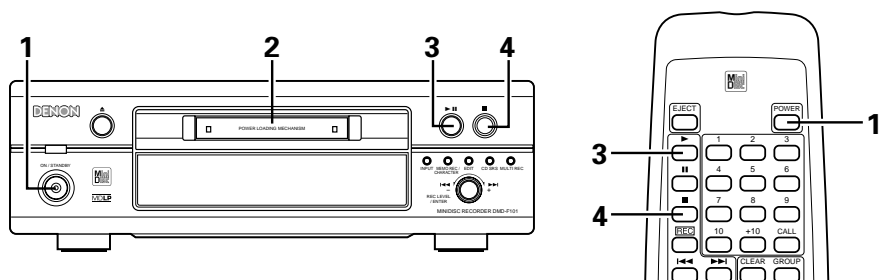
Names and Functions of System Remote Control Unit Buttons (The RC-927 is included with the DRA-F101.)

- The MD related buttons on the system remote control unit included with the receiver are explained below.
- Buttons not explained here function in the same way as the remote control unit on the main unit.



8 NORMAL PLAYBACK

1. Starting playback



1	Turn on the power.
2	<p>Load the disc.</p> <ul style="list-style-type: none"> Insert the disc into the disc insertion slot in the direction indicated by the arrow on the top of the disc. The disc is drawn in automatically. <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; padding: 5px; margin-right: 10px;"> <i>Disc Set</i> <small>Total no. tracks</small> 12T </div> <div style="margin: 0 10px;">⇒</div> <div style="border: 1px solid black; padding: 5px; margin-right: 10px;"> <i>TDC Reading</i> <small>Recorded time</small> 62m 03s </div> <div style="margin: 0 10px;">⇒</div> <div style="border: 1px solid black; padding: 5px;"> <i>Live</i> <small>Disc title</small> </div> </div> <p>• The disc title is not displayed if no disc title has been input.</p>
3	<p>Press the ► (play/pause) button.</p> <ul style="list-style-type: none"> Playback begins. <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; padding: 5px; margin-right: 10px;"> <i>Opening</i> <small>Track title</small> </div> <div style="margin: 0 10px;">⇒</div> <div style="border: 1px solid black; padding: 5px;"> 01T 05m 28s <small>Currently playing track Track's elapsed time</small> </div> </div> <p>• The track title is not displayed if no track title has been input.</p>

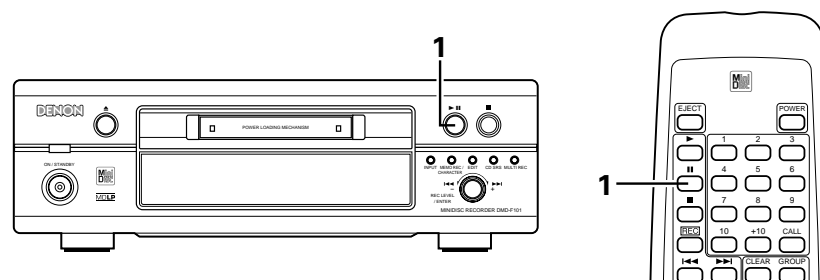
2. Stopping playback

4	<p>Press the ■ (stop) button.</p> <ul style="list-style-type: none"> Playback stops. The stop mode is set automatically once all the tracks on the disc have been played.
---	---

9 VARIOUS PLAYBACK FUNCTIONS

1. Stopping playback temporarily Pause

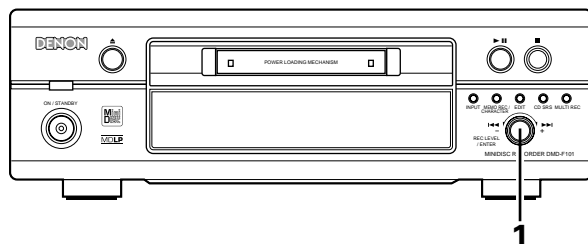
- Use this function to stop playback temporarily then resume from the same point



1	<p>During playback, press the ► (play/pause) button.</p> <ul style="list-style-type: none"> The pause mode is set. Press the play button to resume playback from the point at which the pause mode was set. <div style="display: flex; align-items: center; margin-top: 10px;"> <div style="text-align: center;"> <div style="border: 1px solid black; padding: 2px 10px;">4th track</div> <div style="border: 1px solid black; padding: 2px 10px;">5th track</div> <div style="border: 1px solid black; padding: 2px 10px;">6th track</div> </div> <div style="margin: 0 10px;"> <div style="border: 1px solid black; width: 100px; height: 10px; background: linear-gradient(to right, black 40%, white 40%);"></div> </div> <div style="text-align: center;"> <div style="border: 1px solid black; padding: 2px 10px;">(Pause)</div> </div> </div> <p>Press the ► button.</p> <p>Press the ► button.</p>
---	---

2. Finding the beginnings of tracks during playback Automatic Search

(1) Moving ahead to the beginning of the next track

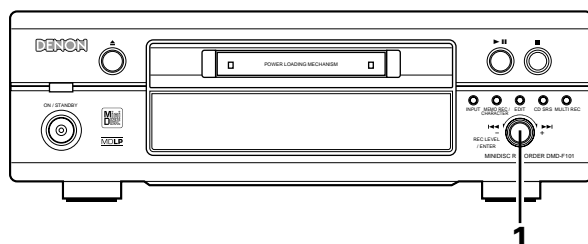


1

Turn the jog dial on the main unit clockwise (Q).

- During the search operation, turn the jog dial on the main unit clockwise (Q) again to move further on to the beginning of the following track.

(2) Moving back to the beginning of the current track



1

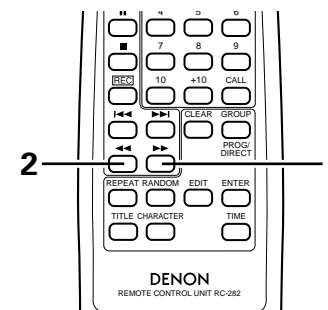
Turn the jog dial on the main unit counterclockwise (Q).

- During the search operation, turn the jog dial on the main unit counterclockwise (Q) again to move further back to the beginning of previous track.

3. Finding the desired position while listening to the sound Manual Search

(remote control unit only)

- Use this function to skip rapidly through the disc while listening to the sound.
This function comes in handy when you want to find a certain section within a long track.



(1) Searching forward

1

During playback, press and hold in the manual search forward button (▶▶).

- Normal playback resumes from the point at which the button is released.
- Playback stops if the end of the last track on the disc is reached while pressing the manual search forward button (▶▶).
- For high-speed forward search without hearing the sound, press the manual search forward button (▶▶).

Press and hold in the manual search forward button (▶▶) on the remote control unit.

Playback Skip Skip Skip Skip Skip

(2) Searching backward

2

During playback, press and hold in the manual search reverse button (◀◀).

- Normal playback resumes from the point at which the button is released.
- Manual search stops and playback starts if the beginning of the first track on the disc is reached while pressing the manual search reverse button (◀◀).
- For high-speed backward search without hearing the sound, press the manual search reverse button (◀◀).

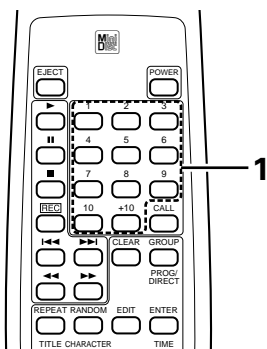
Press and hold in the manual search reverse button (◀◀) on the remote control unit.

Skip Skip Skip Skip Skip

NOTE:

- There may be a slight break in the sound when returning to normal playback from the manual search mode.

4. Playing a certain track (remote control unit only) Direct Search



- ※ To check the contents of the program, press the CALL button. The programmed tracks appear in the programmed order on the display each time the CALL button is pressed.
- ※ To change the program, press the CLEAR button while in the stop mode, then program the desired track. The last programmed track is replaced with the newly input track.
- ※ To clear the entire program, press the PROG/DIRECT button while set direct mode in the stop mode.

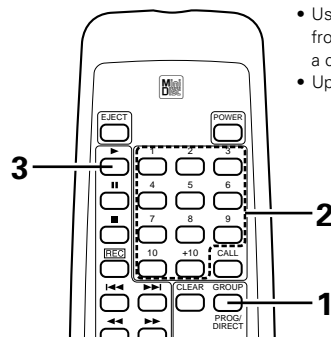
NOTES:

- The single track repeat mode cannot be set during program playback.
- Programs with total playing times of over 999 minutes can be set, but the time will not be displayed properly.
- Direct search mode is not possible during program play.
- A press of the REPEAT button during program play will repeat the playback in the programmed order.

1

- Use the number buttons (1 to 10) and the +10 button to input the number of the desired track.
- For example:
Press button [4] to listen to the 4th track, buttons [+10] and [2] to listen to the 12th track. Playback begins from that track.

5. Playing tracks in a certain order (remote control unit only) Track Programmed Playback



- Use this function to select certain tracks from the disc and program them to play in a certain order.
- Up to 25 tracks can be programmed.

1

- In the stop mode, press the PROG/DIRECT button.
- The "Track Program" appears on the multi-display.
 - The "PROG" indicator lights.

2

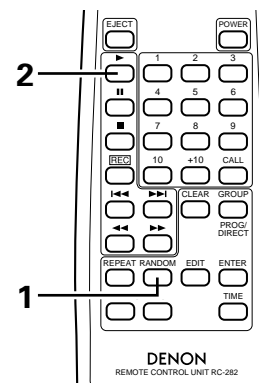
- Use the number buttons and the +10 button to select the tracks for programmed playback.
- For example, to program the 3rd, 12th and 7th tracks, press [3], [+10], [2] and [7].

3

- Press the ► (play) button.
- The tracks are played in the programmed order.

6. Playing in random order (remote control unit only) Random Playback

- Use this function to play all the tracks on the disc once in random order.



1

- In the stop mode, press the RANDOM button.
- The "RANDOM" indicator lights.

2

- Press the ► (play) button.
- This function repeatedly displays at high speed the track numbers stored on the disc, automatically performs track selection and starts playback.

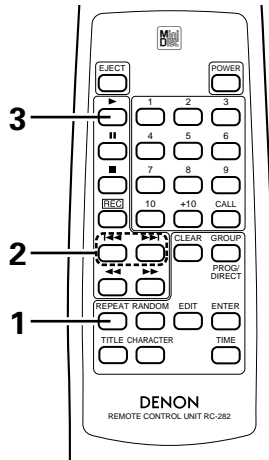
- To cancel random playback, press the RANDOM button again. Normal playback resumes.

NOTES:

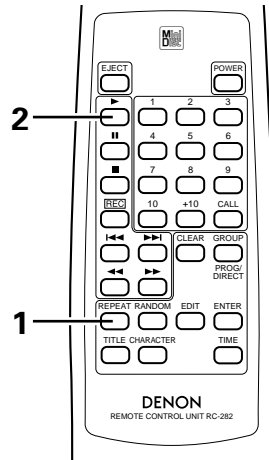
- The single track repeat mode cannot be set during random playback.
- A press of the REPEAT button during random play will result in the unit performing random play in a different track order after completing random play once. Random play can be enjoyed in a different track order on each subsequent occasion.

7. Playing repeatedly (remote control unit only)..... Repeat Playback

(1) Playing a single track repeatedly [Single Track Repeat]



(2) Playing all tracks repeatedly [All Track Repeat]



1	Press the REPEAT button once. <ul style="list-style-type: none">The " RPT " indicators light on the display and the single track repeat mode is set.
2	Press the automatic search buttons (◀◀ and ▶▶) to select the track to be played repeatedly.
3	<div>Press the ► (play) button.<ul style="list-style-type: none">Playback starts.Once the selected track ends, it is played again from the beginning.</div> <div><p>Press the REPEAT button once.</p><p>This operation is repeated.</p></div>
<ul style="list-style-type: none">The single track repeat mode can also be set by pressing the REPEAT button during playback. The current track is played repeatedly.Selection of a track number by pressing the number buttons and the +10 button of the numerical key pad after Step 2 starts one-track repeat play of the selected track.To cancel the single track repeat mode, press the REPEAT button repeatedly until the "RPT" indicator turns off.	

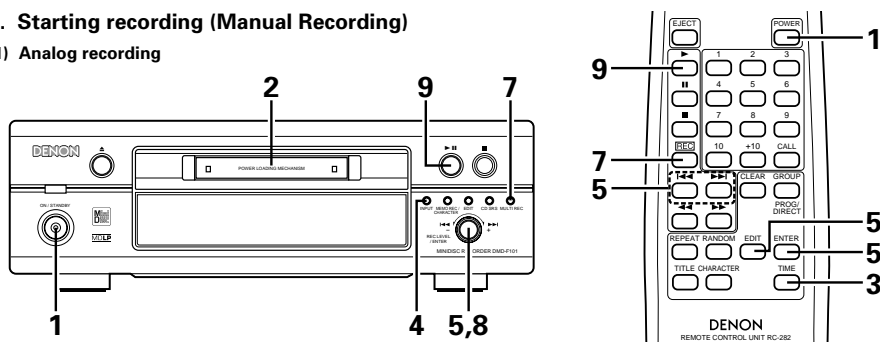
1	Press the REPEAT button twice. <ul style="list-style-type: none">The " RPT ALL " indicators light on the display and the all track repeat mode is set.
2	<div>Press the ► (play) button.<ul style="list-style-type: none">The disc is played repeatedly.</div> <ul style="list-style-type: none">The all track repeat mode can also be set by pressing the REPEAT button twice during playback.If the REPEAT button is pressed during programmed playback, the tracks are played repeatedly in the programmed order.To cancel the all track repeat mode, press the REPEAT button repeatedly until the "RPT" indicator turns off.
<p>NOTES:</p> <ul style="list-style-type: none">The single track repeat mode cannot be set during programmed playback or random playback."Single-track repeat" play is not possible during "Playing one group" or "Group program play".	

10 RECORDING

- When recording on an already recorded disc, recording automatically starts from the end of the section last recorded. When doing so, pay attention to the remaining time.
- To clear the entire content of the disc and record from the beginning, first erase the entire disc. (For instructions on erasing the entire disc, refer to "[14] Editing — (1) Erasing all tracks" on Page 23.)
- To record on a disc, make sure the accidental erasure prevention tab is closed and the hole is covered.
- Use of the CD synchronized recording function (Page 31) and the Synchronized recording function (Page 31) will be convenient when there is a system connection with the D-F101 Series.
- When recording without a system connection, the insertion of a blank (i.e., unrecorded) disc or a no-track disc (i.e., a disc with only the disc name recorded) will result in the unit automatically entering the record pause mode which will make analog recording Step 7 and digital recording Step 6 unnecessary. (The Auto Rec Pause function.)
The Auto Rec Pause function will also be activated when the power is switched on while one of these discs is in the unit.
- When recording of the TOC is not performed after editing, "Unit to be UTOC" is displayed and the unit will not enter the recording mode.

1. Starting recording (Manual Recording)

(1) Analog recording



1	Turn on the power.
2	Load the recordable MiniDisc that is to be recorded.
3	When using a blank disc or a no-track disc, the Auto Rec Pause function automatically sets this unit to the recording pause mode (There is no need to perform step 7.) • Adjust the recording level in step 8. When using an already recorded MiniDisc, press the TIME button to check the recordable time. • The time display switches between the total recorded time and the recordable time each time the TIME button is pressed.
4	Press the INPUT button and set "Analog". • The indicator for the selected input source ("ANA") lights.
5	Select On/Off of the Auto Track Marking function. • ATM Function On The "ATM" indicator will light. When a blank portion (of about 3 seconds or greater) of the recording input signal is detected, the track number is automatically associated and recorded. • ATM Function Off This is recorded as the following track. Press the EDIT button, turn the jog dial of the main unit or press the automatic search buttons (◀ and ▶) of the remote control unit, and select the Analog A.T.M. mode. • "Analog A.T.M?" is displayed. Press the ENTER button, turn the jog dial of the main unit or press the automatic search buttons (◀ and ▶) of the remote control unit, and select On/Off of the A.T.M. function. • "A.T.M On(Off)" is displayed. Press the ENTER button.

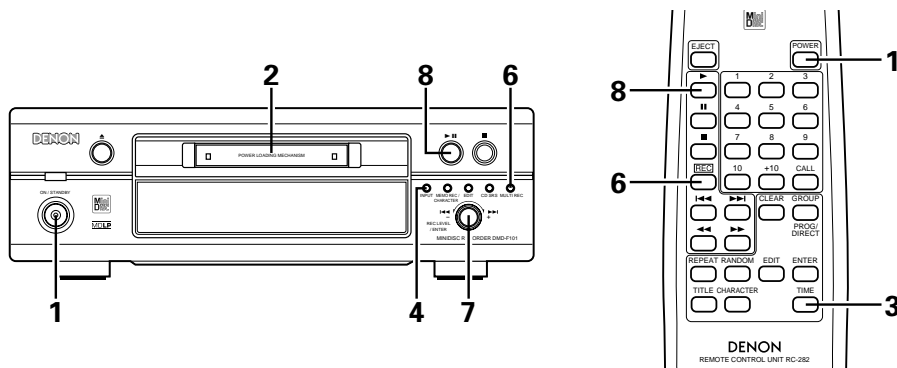
6	Start playing the selection you want to record on the CD player, Cassette deck, etc.
7	Press the MULTI REC button. • The recording standby mode is set.
8	Adjust the recording level with the jog dial. • Adjust the input level adjustment control so that the "OVER" indicator does not light even when the volume is loudest. After adjusting, set the source to be recorded to the standby mode. • The set recording level will be stored in memory, but this data might be lost if the unit is not connected to a power source for 2 to 3 days.
9	Press the ▶ (play/pause) button. • Recording starts.
10	Start playing the selection you want to record on the CD player, Cassette deck, etc.

※ When recording is performed with a system connection to the D-F101 Series, the synchronized recording function will operate with the CD player (DCD-F101) and the Cassette deck (DRR-F101) and pressing the play/pause button (▶||) of one of the units will start the recording automatically. See "Synchronized Recording" on Page 31 for details.

(2) Digital recording

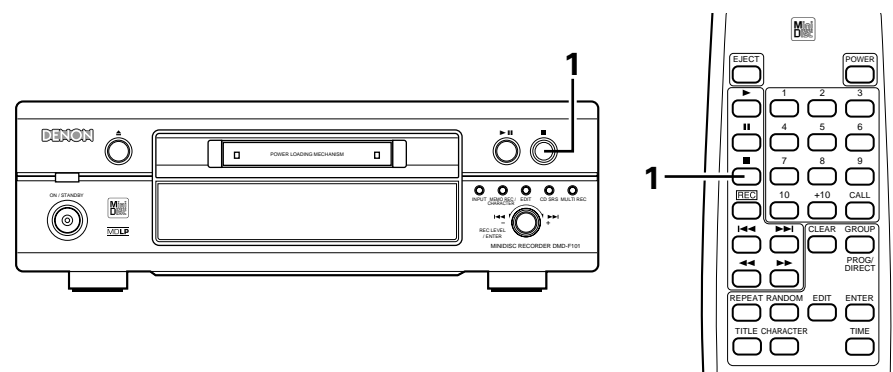
- This set includes a sampling rate converter.

When recording DATs or satellite broadcasts (32 kHz or 48 kHz) whose digital input signal sampling frequency is different from that of CD (44.1 kHz), the sampling frequency is automatically converted to 44.1 kHz.



1	Turn on the power.
2	Load the recordable MiniDisc that is to be recorded.
3	When using a blank disc or a no-track disc, the Auto Rec Pause function automatically sets this unit to the recording pause mode (There is no need to perform step 6.) When using an already recorded MiniDisc, press the TIME button to check the recordable time. • The time display switches between the total recorded time and the recordable time each time the TIME button is pressed.
4	Press the INPUT button and set "Optical-1" or "Optical-2". • The indicator for the selected input source ("OPT 1" or "OPT 2") lights.
5	Start playing the selection you want to record on the CD player, Cassette deck, etc.
6	Press the MULTI REC button. • If the "OPT 1" or "OPT 2" indicator is flashing, check the connections to the digital input jacks.
7	Adjust the recording level with the jog dial. • Adjust the input level adjustment control so that the "OVER" indicator does not light even when the volume is loudest. After adjusting, set the source to be recorded to the standby mode. • The set recording level will be stored in memory, but this data might be lost if the unit is not connected to a power source for 2 to 3 days.
8	Press the ► (play/pause) button. • Recording starts.
9	Play the selection to be recorded on the CD player, etc.

2. Stopping recording



1	Press the ■ (stop) button. • Recording stops and the TOC data is written on the MD. • The stop mode is set automatically once the end of the recordable time is reached.
---	--

NOTES:

- When performing digital recording of CDs or MiniDiscs, the track numbers are recorded automatically. (Depending on the recorded content on the CD or MiniDisc and on the type of CD player, the track numbers may differ from those on the original CD or MiniDisc.)
- When recording on CDs or MiniDiscs, track numbers may be incremented by 1. If this happens, erase the unnecessary track numbers. (See Pages 22, 23.)
- When recording DATs digitally, track numbers are automatically added when soundless sections are detected.
- Use analog recording to record sources that cannot be recorded digitally.
- During digital recording from CDs or MiniDiscs, the track number may not change if the same track is programmed twice in a row or if the single track repeat mode is set.
- Monaural recording is not possible on this recorder.
- It is not possible to make digital recordings of MiniDiscs which have already been recorded digitally. This unit includes a serial copy management system (SCMS). This system limits reproduction of digital signals on digital audio devices to "one generation". Use analog recording to record MiniDiscs originally recorded digitally.
- Should the "COPY Prohibit" or "Dis. Unlock" display appear during digital recording, the unit enter the record pause mode, and you wish to eject the disc, press the stop button (■), then press the eject button (▲) and eject the disc.

NOTE:

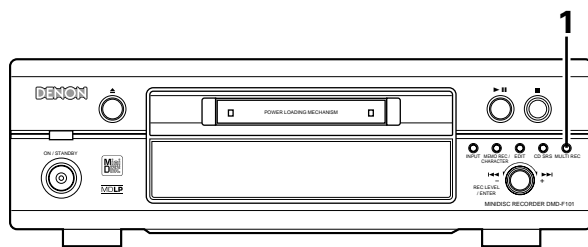
- When TOC writing starts, the "TOC" indicator flashes. Do not shake the main unit, or unplug the power cord while the TOC is being written. If the data is not recorded properly, it will not be possible to play the disc.

※ When recording is performed with a system connection to the D-F101 Series, the synchronized recording function will operate with the CD player (DCD-F101) and the Cassette deck (DRR-F101) and pressing the play/pause button (►||) of one of the units will start the recording automatically. See "Synchronized Recording" on Page 31 for details.

11 VARIOUS RECORDING FUNCTIONS

1. Adding track numbers during recording

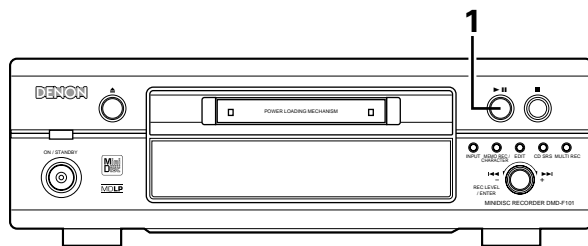
- Track numbers can be added during recording regardless of the recording mode.



1	<p>During recording, press the MULTI REC button.</p> <ul style="list-style-type: none"> When the MULTI REC button is pressed during recording, a track number is added at that point. A new track number cannot be added for approximately 4 seconds after the last track number. 	<p>Press the MULTI REC button.</p> <p>(Recording continues.)</p>
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2. Stopping recording temporarily

- Recording can be stopped temporarily then resumed from the same point.

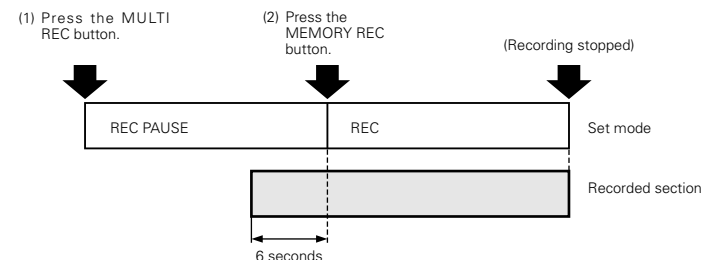


1	<p>During recording, press the ► (play/pause) button.</p> <ul style="list-style-type: none"> When the ► (play/pause) button is pressed during recording, the pause mode is set at that point and the track number changes. Press the ► (play/pause) button to resume recording. 	<p>① Press the ► (play/pause) button.</p> <p>(Pause)</p> <p>② Press the ► (play/pause) button.</p>
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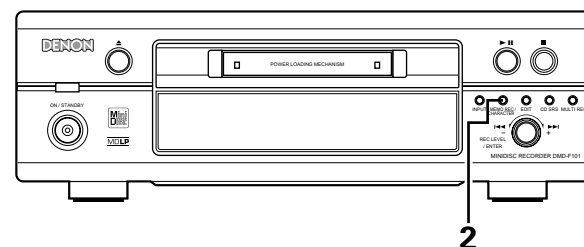
• A blank section of approximately 2 seconds is inserted before recording resumes.

3. Recording from a point 6 seconds back **Memory Recording**

- With this function you can start recording from a point up to 6 seconds back in the sound that was being input to the set when the recording pause mode was set.



- Use this function to prevent missing the beginning of the satellite broadcast or other program you want to record using the "AIR CHECK" function.



1	<p>Perform the operations under "Starting recording" on Pages 14 and 15.</p> <ul style="list-style-type: none"> To record an analog input, perform steps 1 to 8 under "Analog recording". To record a digital input, perform steps 1 to 7 under "Digital recording".
	<p>2 Press the MEMORY REC button.</p> <ul style="list-style-type: none"> Recording starts from a point up to 6 seconds before the button was pressed. "Memory Rec" is displayed.

• To cancel the memory rec mode, press the ■ (stop) button.

• Recording stops and the TOC data is written on the MD.

NOTE:

- The set stores in the memory the sound which is being input at the point when the recording pause mode is set. Thus, the sound from 6 seconds ago cannot be recorded if recording is started more than 6 seconds after the recording pause mode is set. In addition, if the input is switched with the INPUT button (INPUT) in the 6 seconds before memory recording is started, the sound recorded before the input was switched may be recorded.

NOTE:

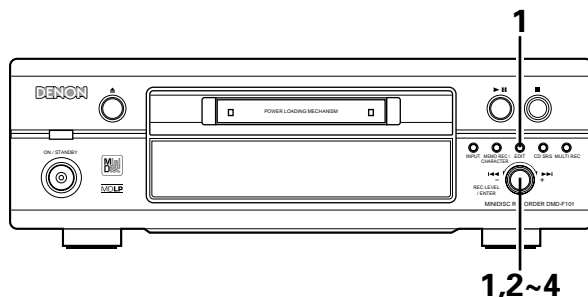
- When TOC writing starts, the "TOC" indicator flashes. Do not shake the main unit, or unplug the power cord while the TOC is being written. If the data is not recorded properly, it will not be possible to play the disc.

12 LONG RECORDING (MDLP RECORDING)

- This unit is compatible with the MDLP (MD-Long Play) format, thereby allowing stereo recording for double or quadruple the normal recording time (MDLP recording).
- Make the following settings to use the MDLP recording mode:

NOTES:

- It is not possible to play or edit tracks recorded in the MDLP mode on the other players that are not MDLP compatible.
- It is not possible to combine tracks recorded in the MDLP mode with tracks recorded in the normal mode.
- The recording mode cannot be changed during recording.



1. Setting the MDLP recording mode

1	Press the EDIT button, turn the jog dial of the main unit, and select the MDLP mode. • "MDLP?" is displayed.
2	Press the ENTER button. • "MDLP 2/4/Off" is displayed.
3	Turn the jog dial and select the desired mode. • "2" flashes when the LP 2 recording mode (double the normal recording time) is selected, "4" flashes when the LP 4 recording mode (quadruple the normal recording time) is selected, and "Off" flashes when the normal recording mode is selected.
4	Press the ENTER button. • "MDLP 2" (or "MDLP 4" or "Off") is displayed. • LP 2 (or LP 4) lights when the MDLP recording mode is selected.
• After setting the MDLP recording mode, record using the same procedure as for normal recording (analog, digital recording or CD synchronized recording).	

NOTE:

- The MDLP recording mode you have set remains in the memory after recording is completed. Be sure to check the recording mode before starting to record.

2. Applying the "LP stamp"

- The letters "LP:" can automatically be added to the beginning of the track name when recording in the MDLP mode. If you attempt to play the track on a player that is not MDLP compatible, "LP:" is displayed, indicating that the track was recorded in the MDLP mode.
- The LP stamp function is set to "On" upon shipment from the factory.

1	Press the EDIT button, turn the jog dial of the main unit, and select the LP stamp mode. • "LP Stamp?" is displayed.
2	Press the ENTER button. • "Stamp On/Off" is displayed.
3	Turn the jog dial of the main unit, and select On/Off of the LP stamp function.
4	Press the ENTER button.

NOTES:

- "LP:" serves as an indicator notifying you that the track cannot be played on players that are not MDLP compatible. "LP:" is not displayed when the track is played on an MDLP compatible player.
- When the LP stamp function is set to "On", the "LP:" stamp is recorded as part of the track name, so the number of characters that can be input per MD decreases. In addition, if the track is split using the divide function, the "LP:" stamp is also added to the second of the split tracks.

13 GROUP FUNCTIONS

- A group function is a function operating a new function that performs group management of tracks recorded on an MD.
- Use of the MDLP (MD Long Play) format support on this unit allows stereo recording that is two times or four times as long as the regular recording time. (This is MDLP recording.) Although it is now possible to record more tracks than in the past, finding the track when it comes time to play is a difficult job. To this end, the recorded tracks have been divided into groups so that playback and searches can be performed easily.
- The group functions of this unit provide operations such as those described below.

1. Creation of groups

- Continuous, multiple tracks that have been stored on the MD disc are registered as a group and the group is created.
- A maximum of 99 groups can be registered to one MD with this unit.
- Modification of the group registration can be performed after storage.

2. Playing of desired groups

- *1 Group Mode*: a function for playing one group.
- *Group Program*: a function for programmed play of registered groups.

3. Changing the tracks within a group and cancellation of groups

- The tracks registered to a group can be deleted, divided, combined, and moved.
- Groups can be canceled and deleted.

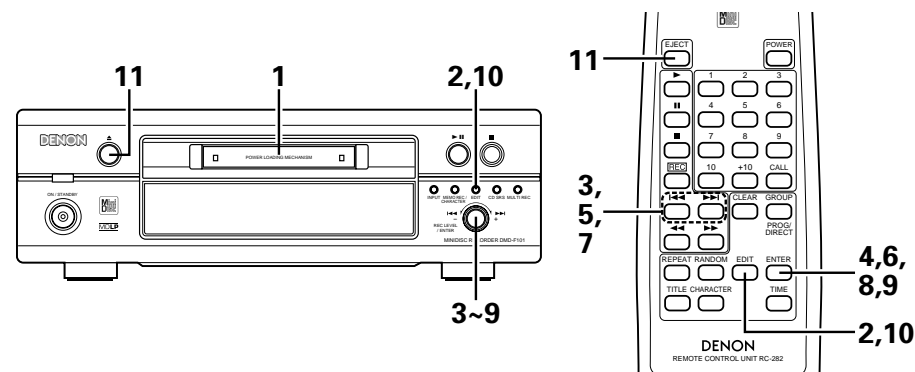
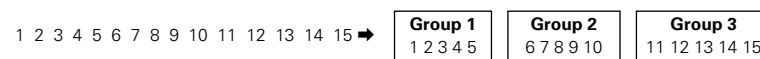
4. Adding and changing group titles

- A group name can be added to a registered group.
- The group name of a registered group can be changed.
- This unit allows a total of 100 characters to be entered for a group name.

1. Creation of groups

Example: Making the continuous tracks from track 1 to track 15 into 3 groups

- Continuous tracks that have not been grouped



NOTES:

■ Editing with a unit that is not equipped with group functions

Do not use a unit that is not equipped with group functions to delete single tracks, move tracks, or perform other editing on a disc on which groups are registered.

■ Display of group information with a unit that is not equipped with group functions

Group information is actually written to a disc name information storage area. It is for this reason that, when the disc title is displayed with a unit that is not equipped with group functions, displays such as the following will appear, but this is not a fault.

0; Disc Name // 1-5; Group Name 1 // 6-9; Group Name 2 //...

■ Limitations of this unit's group functions



A maximum of 99 groups can be handled by this unit.

A total of 100 characters can be entered for a group name.

The groups of an MD disc that exceeds these limitations, or groups without track number registration will not be recognized as groups.

When this unit is used for editing, information that exceeds the limitations of this unit will be deleted.

1	Insert a recorded disc to which you want to create groups into the disc insertion slot.
2	In the stop mode, press the EDIT button. • "Edit Mode" is displayed.
3	Either turn the jog dial on the main unit or press one of the automatic search buttons (◀ and ▶) on the remote control unit. • Display "New Group?"
4	Press the ENTER button. • "TRACK 01-01" is displayed.
5	Either turn the jog dial on the main unit or press one of the automatic search buttons (◀ and ▶) on the remote control unit to flash the track number you want to register to the first track of the group.
6	Press the ENTER button. • "TRACK 01-01" is displayed.
7	Either turn the jog dial on the main unit or press one of the automatic search buttons (◀ and ▶) on the remote control unit to flash the track number you want to register to the last track of the group. • "TRACK 01-05" is displayed.
8	Press the ENTER button. • "Complete" is displayed. • After "GP Name In?" is displayed.

9	Press the ENTER button. Input the title. • For instructions on inputting titles, see step 5 under “Adding disc titles” on Page 26.
10	Press the EDIT button to enter the input track title.
11	Press the  (eject) button. • Group 1 is created. • The TOC data is written and the disc is ejected. • When TOC writing starts, the “ TOC ” indicator flashes. Do not shake the main unit, or unplug the power cord while the TOC is being written. If the data is not recorded properly, it will not be possible to play the disc. • The TOC data can also be recorded by performing the following operations: • Pressing the power button to set the power to the standby mode. • In the stop mode, press the  (stop) button.
12	Repeat Steps 2 to 11 and create groups 2 and 3.

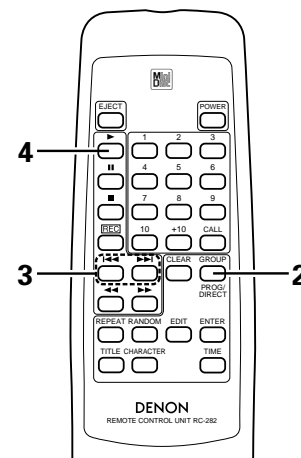
NOTES:

- Tracks that have been registered to a group cannot be selected.
- “New GROUP?” will not be displayed for instances such as the following:
 1. Ninety-nine groups have already been registered.
 2. There is insufficient space in the disc name information area to write the group management information.
 3. All tracks have already been group registered.

2. Playing groups

(1) Playing One Group

Example: Playing group 2

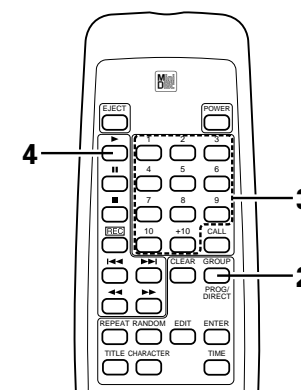


1	Insert a recorded disc which has registered groups into the disc insertion slot.
2	In the stop mode, press the GROUP button. • “1GROUP Mode” is displayed.
3	Press the automatic search buttons (◀◀ and ▶▶). • Display “GGGGF OO (Title)”. (Group number)
4	Press the PLAY (▶) button. • The tracks registered to group 2 will play and the unit will stop automatically when playback is completed.

NOTES:

- “G” is displayed at the beginning of the display area in the one group play mode.
- To return to the regular play mode, press the GROUP button and display “Direct Mode”.
- When using a group-registered disc, the mode can be switched between the group display mode and track display mode by pressing the CALL button on the remote control unit.
This is convenient when you want to find out what track is currently playing during group playback.

(2) Group Program Play



1	Insert a recorded disc which has registered groups into the disc insertion slot.
2	In the stop mode, press the GROUP button. • “GROUP PROGRAM” is displayed. • The “PROG” indicator lights. • “GGGGF OOm OOE” is displayed. (Number of total groups) (Recorded time of the disc)
3	Press the numerical key pad to select the groups that you wish to program. Ex.: To program groups 2, 3 and 1, press: <div style="display: flex; justify-content: center; align-items: center; gap: 10px;"> 231 </div>
4	Press the ▶ (PLAY) button. • The groups are played in the programmed order.

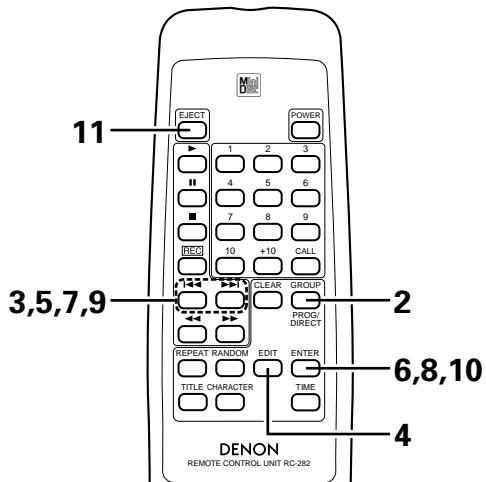
- * To check the groups in the program, press the call button. The programmed groups appear on the display in the programmed order each time the button is pressed.
- * To perform the direct play operation, first press the GROUP button to cancel the programmed play mode.

NOTES:

- “G” is displayed at the beginning of the display area and the “PROG” indicator lights in the group program play mode.
Up to 25 groups can be programmed, but the same group cannot be programmed twice.
- To return to the regular play mode, press the GROUP button and display “Direct Mode”.

3. Changing the tracks of the group

Example: Change group 1 (i.e., the 1st track to the 5th track) to the 3rd to 5th tracks.

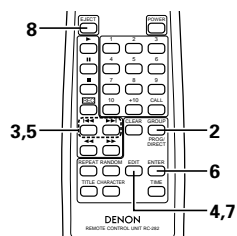


1	Insert a recorded disc which has registered groups into the disc insertion slot.
2	In the stop mode, press the GROUP button. <ul style="list-style-type: none">• "1GROUP Mode" is displayed.
3	Press one of the automatic search buttons (I◀◀ and ▶▶I) on the remote control unit. <ul style="list-style-type: none">• Display "G01GP 00 (Title)" .
4	Press the EDIT button. <ul style="list-style-type: none">• "Edit Mode" is displayed.
5	Press one of the automatic search buttons (I◀◀ and ▶▶I) on the remote control unit. <ul style="list-style-type: none">• "Group Modify?" is displayed.
6	Press the ENTER button. <ul style="list-style-type: none">• " TRACK 01-05 " is displayed.

7	Press the automatic search buttons (I◀◀ and ▶▶I) and display the first track number that you wish to change.
8	Press the ENTER button. <ul style="list-style-type: none">• " TRACK 03-05 " is displayed.
9	Press the automatic search buttons (I◀◀ and ▶▶I) and display the last track number that you wish to change.
10	Press the ENTER button. <ul style="list-style-type: none">• "Complete" is displayed.
11	Press the ▲ (eject) button. <ul style="list-style-type: none">• The tracks of the group will change.• The TOC data is written and the disc is ejected.• When TOC writing starts, the " TOC " indicator flashes. Do not shake the main unit, or unplug the power cord while the TOC is being written. If the data is not recorded properly, it will not be possible to play the disc.• The TOC data can also be recorded by performing the following operations:<ul style="list-style-type: none">• Pressing the power button to set the power to the standby mode.• In the stop mode, press the ■ (stop) button.

4. Changing the title of the group

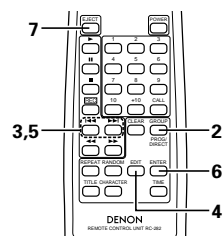
Example: Changing the title of group 1



1	Insert a recorded disc which has registered groups into the disc insertion slot.
2	In the stop mode, press the GROUP button. • "1Group Mode" is displayed.
3	Press the automatic search buttons (◀◀ and ▶▶) and select the group whose title you wish to delete. • Display "G01GF 00 (Title)".
4	Press the EDIT button. • "Edit Mode" is displayed.
5	Press one of the automatic search buttons (◀◀ and ▶▶) on the remote control unit. • Display "GF Name In?".
6	Press the ENTER button and enter the title of the group. • For instructions on inputting titles, see step 5 under "Adding disc titles" on Page 26.
7	Press the EDIT button to enter the input group title.
8	Press the ▲ (eject) button. • The title will change. • The TOC data is written and the disc is ejected. • When TOC writing starts, the "TOC" indicator flashes. Do not shake the main unit, or unplug the power cord while the TOC is being written. If the data is not recorded properly, it will not be possible to play the disc. • The TOC data can also be recorded by performing the following operations: • Pressing the power button to set the power to the standby mode. • In the stop mode, press the ■ (stop) button.

5. Cancel a group

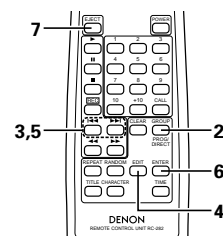
Example: Perform group cancellation of group 2



1	Insert a recorded disc which has registered groups into the disc insertion slot.
2	In the stop mode, press the GROUP button. • "1Group Mode" is displayed.
3	Press the automatic search buttons (◀◀ and ▶▶) and select the group that you wish to cancel. • Display "G02GF 00 (Title)".
4	Press the EDIT button. • "Edit Mode" is displayed.
5	Press one of the automatic search buttons (◀◀ and ▶▶) on the remote control unit. • Display "Group Cancel?".
6	Press the ENTER button. • "Complete" is displayed.
7	Press the ▲ (eject) button. • Group 2 will be cancelled. Note that once cancelled, group 3 will automatically change to group 2. • The TOC data is written and the disc is ejected. • When TOC writing starts, the "TOC" indicator flashes. Do not shake the main unit, or unplug the power cord while the TOC is being written. If the data is not recorded properly, it will not be possible to play the disc. • The TOC data can also be recorded by performing the following operations: • Pressing the power button to set the power to the standby mode. • In the stop mode, press the ■ (stop) button.

6. Delete the title of a group

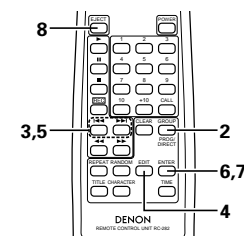
Example: Delete the title of group 2



1	Insert a recorded disc which has registered groups into the disc insertion slot.
2	In the stop mode, press the GROUP button. • "1Group Mode" is displayed.
3	Press the automatic search buttons (◀◀ and ▶▶) and select the group whose title you wish to delete. • Display "G02GF 00 (Title)".
4	Press the EDIT button. • "Edit Mode" is displayed.
5	Press one of the automatic search buttons (◀◀ and ▶▶) on the remote control unit. • Display "GF N. Erase?".
6	Press the ENTER button. • "Complete" is displayed.
7	Press the ▲ (eject) button. • The title will be deleted. • The TOC data is written and the disc is ejected. • When TOC writing starts, the "TOC" indicator flashes. Do not shake the main unit, or unplug the power cord while the TOC is being written. If the data is not recorded properly, it will not be possible to play the disc. • The TOC data can also be recorded by performing the following operations: • Pressing the power button to set the power to the standby mode. • In the stop mode, press the ■ (stop) button.

7. Delete a group

Example: Delete group 1



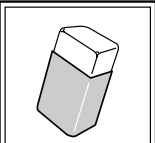

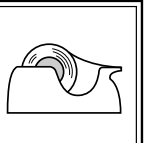
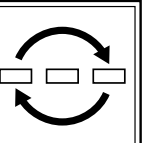
1	Insert a recorded disc which has registered groups into the disc insertion slot.
2	In the stop mode, press the GROUP button. • "1Group Mode" is displayed.
3	Press the automatic search buttons (◀◀ and ▶▶) and select the group you wish to delete. • Display "G01GF 00 (Title)".
4	Press the EDIT button. • "Edit Mode" is displayed.
5	Press one of the automatic search buttons (◀◀ and ▶▶) on the remote control unit. • Display "Group Erase?".
6	Press the ENTER button. • "Erase OK?" is displayed.
7	Press the ENTER button. • "Complete" is displayed.
8	Press the ▲ (eject) button. • Group 1 will be deleted. Note that once deleted, group 2 will automatically move to the place of group 1. • The TOC data is written and the disc is ejected. • When TOC writing starts, the "TOC" indicator flashes. Do not shake the main unit, or unplug the power cord while the TOC is being written. If the data is not recorded properly, it will not be possible to play the disc. • The TOC data can also be recorded by performing the following operations: • Pressing the power button to set the power to the standby mode. • In the stop mode, press the ■ (stop) button.

14 Editing

The editing functions can be used to add track numbers, combine tracks, erase unwanted sections, etc. It is also possible to give titles to discs and tracks. Use the editing functions to get the best of the excellent operability that MiniDiscs offer.

1. Editing

- This unit is equipped with the following four editing functions:

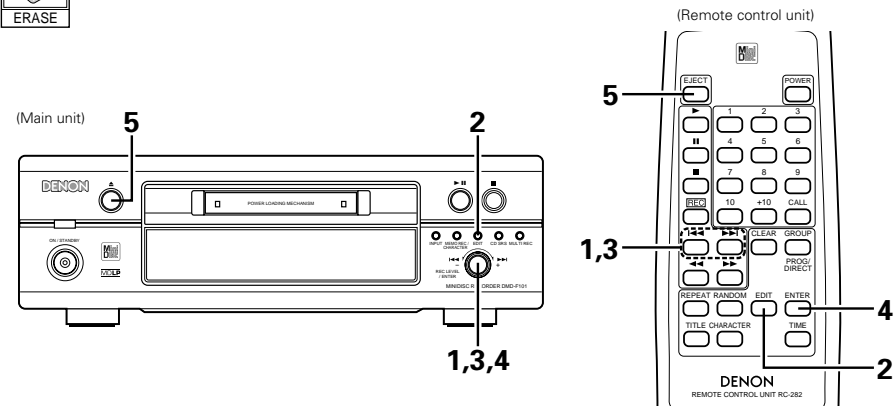
Editing functions			
 ERASE	 DIVIDE	 COMBINE	 MOVE
<ul style="list-style-type: none"> Erasing single tracks Erasing all tracks Erasing a certain section of a track 	<ul style="list-style-type: none"> Dividing tracks 	<ul style="list-style-type: none"> Combining track 	<ul style="list-style-type: none"> Moving tracks

These four editing functions can be combined for a variety of editing possibilities.

- When editing tracks, adding or erasing titles, close the accidental erasure prevention tab to cover the hole.

(1) Erasing tracks

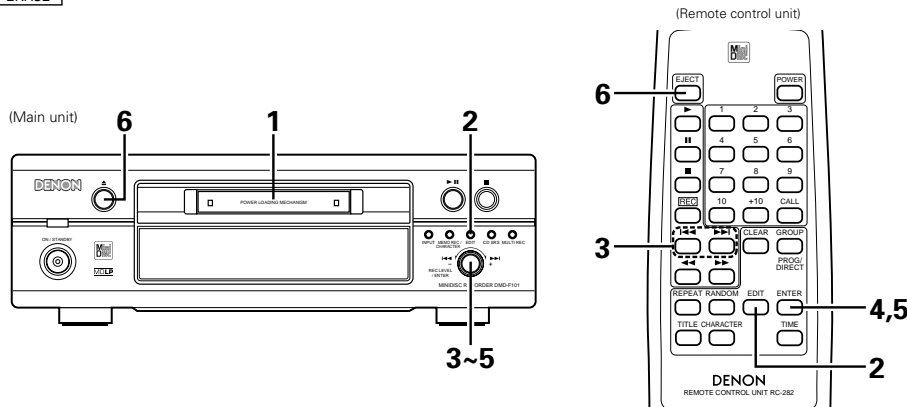
[Erasing one track at a time]



1	<p>In the stop mode, display the number of the track to be erased.</p> <ul style="list-style-type: none"> Either turn the jog dial on the main unit or use the automatic search buttons (◀◀ and ▶▶) on the remote control unit to display the number of the track to be erased. This step is unnecessary when you want to erase the paused track.
2	<p>Press the EDIT button.</p> <ul style="list-style-type: none"> "Edit Mode" is displayed.
3	<p>Either turn the jog dial on the main unit or press one of the automatic search buttons (◀◀ and ▶▶) on the remote control unit.</p> <ul style="list-style-type: none"> Display "Track Erase?".
4	<p>Press the jog dial on the main unit or the ENTER button on the remote control unit.</p> <ul style="list-style-type: none"> "Complete" is displayed. During the pause mode, that track is erased. When a track is erased during the pause mode, the stop mode is set after the track is erased. When a track is erased, the numbers of the tracks following that track are all decreased by one.
5	<p>Press the ▲ (eject) button.</p> <ul style="list-style-type: none"> The TOC data is written and the disc is ejected. When TOC writing starts, the "TOC" indicator flashes. Do not shake the main unit, or unplug the power cord while the TOC is being written. If the data is not recorded properly, it will not be possible to play the disc. The TOC data can also be recorded by performing the following operations: <ul style="list-style-type: none"> Pressing the power button to set the power to the standby mode. In the stop mode, press the ■ (stop) button.

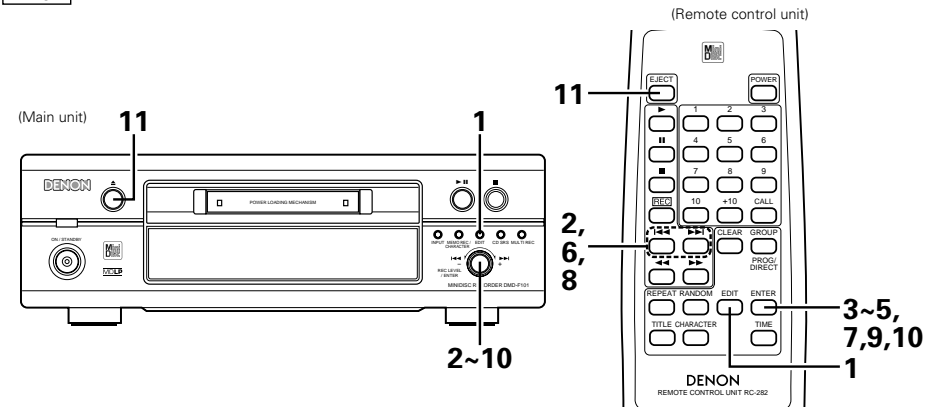


[Erasing all tracks]






[Erasing a certain section of a track]

- This function comes in handy for example when you want to erase part of an unattended recording made with the "AIR CHECK" function.



1	Load the disc you want to erase.
2	In the stop mode, press the EDIT button. • "Edit Mode" is displayed.
3	Either turn the jog dial on the main unit or press one of the automatic search buttons (I◀ and ▶I) on the remote control unit. • Display "All Erase?".
4	Press the jog dial on the main unit or the ENTER button on the remote control unit. • The "Erase OK?" message appears.
5	If it is OK to erase all the tracks, press the jog dial on the main unit or the ENTER button on the remote control unit. • "Complete" is displayed.
6	Press the ▲ (eject) button. • The TOC data is written and the disc is ejected. • When TOC writing starts, the "TOC" indicator flashes. Do not shake the main unit, or unplug the power cord while the TOC is being written. If the data is not recorded properly, it will not be possible to play the disc. • The TOC data can also be recorded by performing the following operations: • Pressing the power button to set the power to the standby mode. • In the stop mode, press the ■ (stop) button.
<ul style="list-style-type: none"> When "All Erase?" is used, both the tracks and the disc title are erased. To cancel the erasing procedure, press the ■ (stop) or CLEAR button before step 5 above. 	

1	In the play mode or pause mode, press the EDIT button. • "Edit Mode" is displayed.
2	Either turn the jog dial on the main unit or press one of the automatic search buttons (I◀ and ▶I) on the remote control unit. • Display "A-B Erase?".
3	Press the ENTER button. • "A Point In?" is displayed.
4	Press the ENTER button at the position where you want to start erasing (point A). • "B Point In?" is displayed.
5	Press the ENTER button again at the position where you want to stop erasing (point B). • The section which is to be erased is played and "Position OK?" is displayed. • The section at which the track is to be combined is played repeatedly for several seconds.
6	To fine-adjust point A, turn the jog dial on the main unit or use the automatic search buttons (I◀ and ▶I) on the remote control unit to move point A. • "A Point ± [point number]" is displayed. • Fine-adjustment is possible within the range of -176 to +176 points. (1 point equals approximately 0.012 seconds.)
7	Press the ENTER button to reset point A. • "B Point ± [point number]" is displayed.
8	To fine-adjust point B, turn the jog dial on the main unit or use the automatic search buttons (I◀ and ▶I) on the remote control unit to move point B. • "B Point ± [point number]" is displayed. • Fine-adjustment is possible within the range of -176 to +176 points. (1 point equals approximately 0.012 seconds.)
9	Press the ENTER button. • "Position OK?" is displayed. • The section at which the track is to be combined is played repeatedly for several seconds.

10	<p>Press the ENTER button to erase the A-B section.</p> <ul style="list-style-type: none"> • "Complete" is displayed.
11	<p>Press the  (eject) button.</p> <ul style="list-style-type: none"> • The TOC data is written and the disc is ejected. • When TOC writing starts, the "TOC" indicator flashes. Do not shake the main unit or unplug the power cord while the TOC is being written. If the data is not recorded properly, it will not be possible to play the disc. • The TOC data can also be recorded by performing the following operations: <ul style="list-style-type: none"> • Pressing the power button to set the power to the standby mode. • In the stop mode, press the  (stop) button. <p>• Press the CLEAR button to reset the settings to as they were one step before that point.</p> <p>• To cancel the erasing procedure, press the  (stop) or CLEAR button before step 10 above.</p>

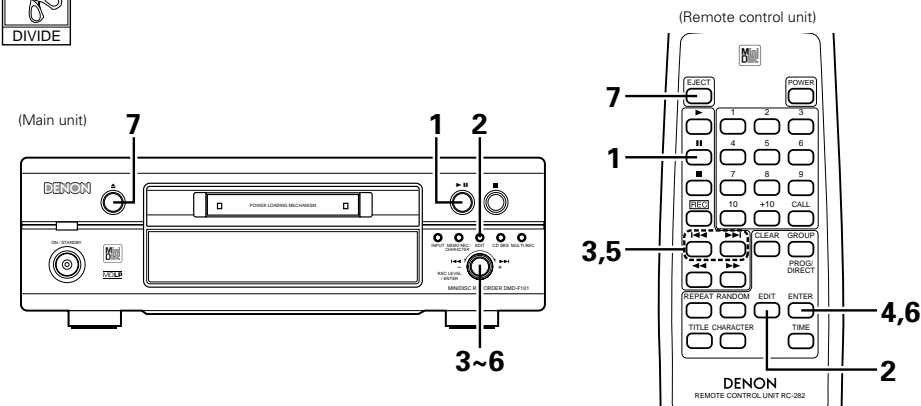
NOTES:




- Tracks that have been deleted may be returned to the original condition with the Undoing the last editing operation on Page 28, but make sure that you check before making a deletion.
- On group registered discs, deletion between A-B of this section is not possible. Please use "Dividing Tracks" of the next section and "Erasing one track at a time" of Page 24.

(2) Dividing tracks



- A recorded track can be divided, adding a new track number to the second part.
- Use this function to add a track number at the desired position to make it easy to search for that position.

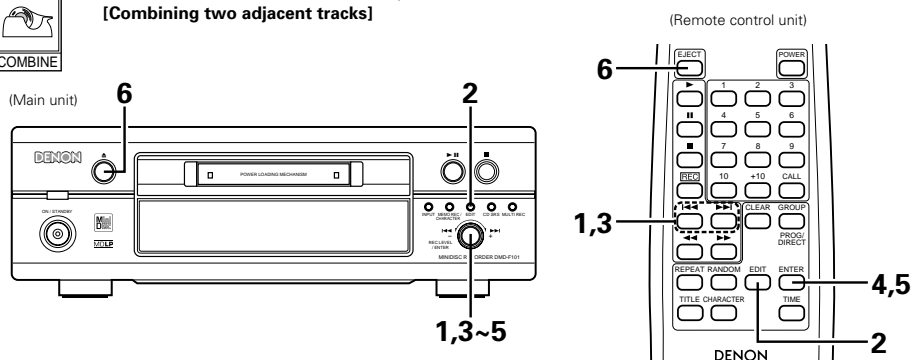


1	Set the pause mode at the position at which you want to divide the track.
2	<p>Press the EDIT button.</p> <ul style="list-style-type: none"> • "Edit Mode" is displayed.
3	<p>Either turn the jog dial on the main unit or press one of the automatic search buttons (◀◀ and ▶▶) on the remote control unit.</p> <ul style="list-style-type: none"> • Display "Divide?".
4	<p>Press the jog dial on the main unit or the ENTER button on the remote control unit.</p> <ul style="list-style-type: none"> • A section of several seconds starting from that position is played repeatedly and "Position OK?" is displayed.
5	<p>Turn the jog dial on the main unit or use the automatic search buttons (◀◀ and ▶▶) on the remote control unit to fine-adjust the dividing position.</p> <ul style="list-style-type: none"> • The section being played repeatedly can be fine-adjusted within a range of -255 to +255 points (1 point corresponds to approximately 0.012 seconds). • "Position ± [no. points]" is displayed.
6	<p>If it is OK to divide the track, press the jog dial on the main unit or the ENTER button on the remote control unit.</p> <ul style="list-style-type: none"> • "Complete" is displayed.
7	<p>Press the  (eject) button.</p> <ul style="list-style-type: none"> • The TOC data is written and the disc is ejected. • When TOC writing starts, the "TOC" indicator flashes. Do not shake the main unit, or unplug the power cord while the TOC is being written. If the data is not recorded properly, it will not be possible to play the disc. • The TOC data can also be recorded by performing the following operations: <ul style="list-style-type: none"> • Pressing the power button to set the power to the standby mode. • In the stop mode, press the  (stop) button. <p>• If a titled track is divided, both parts will have the same title.</p> <p>• To put a divided track back together, see "(3) Combining tracks" on Page 25.</p> <p>• To cancel the dividing procedure, press the  (stop) or CLEAR button before step 6 above.</p> <p>• Press the CLEAR button to reset the settings to as they were one step before that point.</p>

(3) Combining tracks



- Use this function to combine two adjacent tracks.
- [Combining two adjacent tracks]**

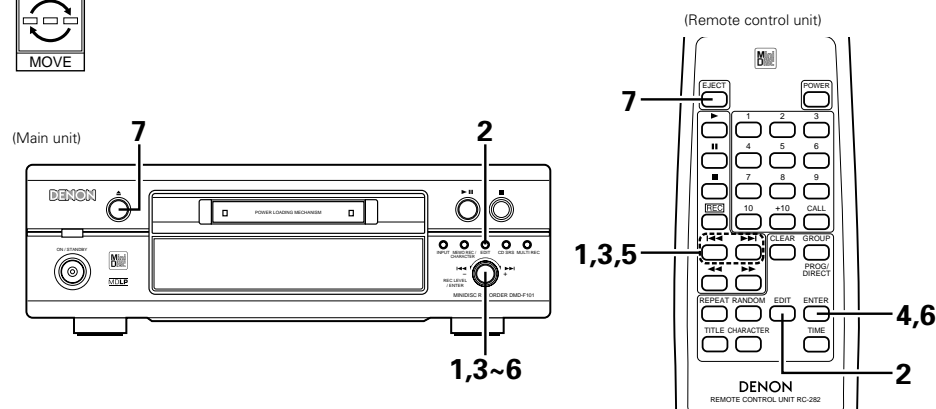


1	In the stop mode, display the number of the second of the adjacent tracks. • Either turn the jog dial on the main unit or use the automatic search buttons (◀◀ and ▶▶) on the remote control unit to display the number of the second track.
2	Press the EDIT button. • “Edit Mode” is displayed.
3	Either turn the jog dial on the main unit or press one of the automatic search buttons (◀◀ and ▶▶) on the remote control unit. • Display “Combine?”.
4	Press the ENTER button. • “Combine OK?” is displayed. • The section at which the track is to be combined is played repeatedly for several seconds.
5	If it is OK to combine the tracks, press the jog dial on the main unit or the ENTER button on the remote control unit. • “Complete” is displayed.
6	Press the ▲ (eject) button. • The TOC data is written and the disc is ejected. • When TOC writing starts, the “TOC” indicator flashes. Do not shake the main unit, or unplug the power cord while the TOC is being written. If the data is not recorded properly, it will not be possible to play the disc. • The TOC data can also be recorded by performing the following operations: • Pressing the power button to set the power to the standby mode. • In the stop mode, press the ■ (stop) button.
<ul style="list-style-type: none"> • To divide tracks that have been combined, see “(2) Dividing tracks” on Page 24. • Tracks can also be combined in the same way during the pause mode by pressing the EDIT button. In this case, the track at the point where ENTER button is pressed is combined with the previous track. • The title of the combined track is the title of the first of the two tracks. If the first track has no title, the title of the second track is used. If that track is recorded in the MDLP mode and no title is written, the title of the combined track is not displayed. • To cancel the combining procedure, press the ■ (stop) or CLEAR button before step 5 above. • Press the CLEAR button to reset the settings to as they were one step before that point. 	

NOTES:

- Tracks recorded from CDs or MiniDiscs using the digital inputs cannot be combined with tracks recorded using the analog inputs.
- It may not be possible to combine short tracks less than 15 seconds long. (“Impossible” will be displayed when the ENTER button pressed at the step 5.)
- MDLP recorded tracks and regularly recorded tracks cannot be joined.
- Tracks recorded in stereo and tracks recorded monaurally with another MD recorder cannot be joined.

(4) Moving tracks

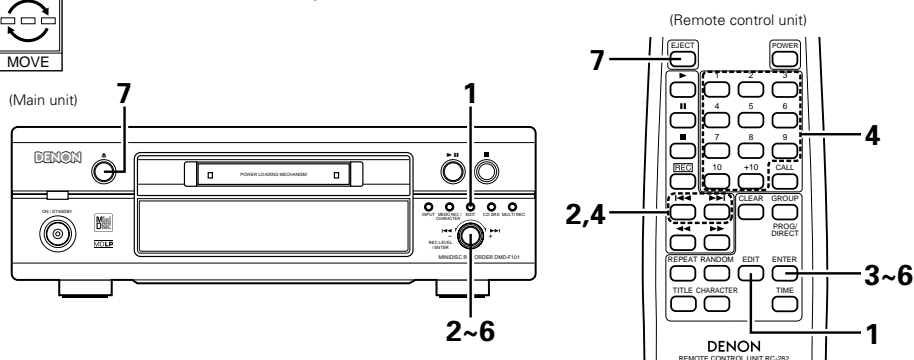


1	In the stop mode, display the number of the track to be moved. • Either turn the jog dial on the main unit or use the automatic search buttons (◀◀ and ▶▶) on the remote control unit to display the number of the track to be moved.
2	Press the EDIT button. • “Edit Mode” is displayed.
3	Either turn the jog dial on the main unit or press one of the automatic search buttons (◀◀ and ▶▶) on the remote control unit. • Display “Move?”.
4	Press the jog dial on the main unit or the ENTER button on the remote control unit. • Display “○○Tr Mv ○○Tr”. (Before moving) (After moving)
5	Either turn the jog dial on the main unit or use the automatic search buttons (◀◀ and ▶▶) on the remote control unit to specify the position to which the track is to be moved.
6	To move the track, press the jog dial on the main unit or the ENTER button on the remote control unit.
7	Press the ▲ (eject) button. • The TOC data is written and the disc is ejected. • When TOC writing starts, the “TOC” indicator flashes. Do not shake the main unit, or unplug the power cord while the TOC is being written. If the data is not recorded properly, it will not be possible to play the disc. • The TOC data can also be recorded by performing the following operations: • Pressing the power button to set the power to the standby mode. • In the stop mode, press the ■ (stop) button.
<ul style="list-style-type: none"> • To cancel the moving procedure, press the ■ (stop) or CLEAR button before step 6 above. 	

(5) Changing the order of the tracks



- Use this function to change the order of the recorded tracks on the MiniDisc.

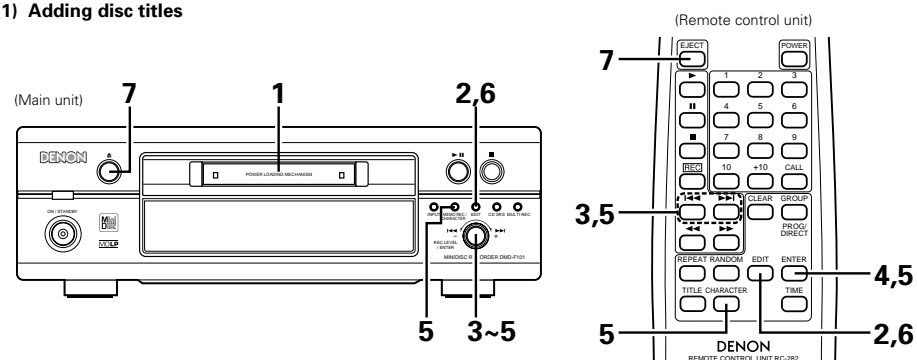


1	In the stop mode, press the EDIT button. • "Edit Mode" is displayed.
2	Either turn the jog dial on the main unit or press one of the automatic search buttons (◀ and ▶) on the remote control unit. • Display "Program Move?".
3	Press the jog dial on the main unit or the ENTER button on the remote control unit. • Display "New 01<--Tr". • Reprogram the first track.
4	After turning the jog dial on the main unit or pressing one of the automatic search buttons (◀ and ▶) or the number buttons on the remote control unit, press the ENTER button and program the track to be moved. • For example, to move the track that is currently third to the beginning, specify "3". At this time "New 01<03Tr" is displayed. When the ENTER button is pressed, the mode for selecting the next track number is set and "New 02<--Tr" is displayed. • To program other track numbers, repeat step 4.
5	Press the ENTER button. • To fix the program in step 4, press the ENTER button while "New 00<--Tr" is displayed. • "Prog. Move OK?" is displayed.
6	Press the ENTER button to move the track(s). • "Complete" is displayed.
7	Press the ▲ (eject) button. • The TOC data is written and the disc is ejected. • When TOC writing starts, the "TOC" indicator flashes. Do not shake the main unit, or unplug the power cord while the TOC is being written. If the data is not recorded properly, it will not be possible to play the disc. • The TOC data can also be recorded by performing the following operations: • Pressing the power button to set the power to the standby mode. • In the stop mode, press the ■ (stop) button.
<ul style="list-style-type: none"> Up to 25 tracks can be specified. Press the CLEAR button at step 5 to clear the track number that was last programmed. Press the CALL button at step 5 to check the program. To cancel the move operation, press the ■ (stop) button or the CLEAR button before step 6. 	
NOTES: <ul style="list-style-type: none"> Tracks that have not been programmed are moved behind the programmed tracks. It is not possible to program the same track more than once. On group registered discs, changing the order of the tracks of this section is not possible. Please use "Moving tracks" of Page 25. 	



2. Adding titles or erasing titles

- Up to 100 characters can be input for the track and disc titles.

(1) Adding disc titles



1	Load the disc to which you want to give a title.
2	Press the EDIT button after the total number of tracks on the disc and the total playing time are displayed (in the stop mode). • "Edit Mode" is displayed.
3	Either turn the jog dial on the main unit or use the automatic search buttons (◀ and ▶) on the remote control unit to display "Disc Name In?".
4	Press the jog dial on the main unit or the ENTER button on the remote control unit. • The cursor flashes, indicating the title input standby mode.
5	<p>Input the title.</p> <ul style="list-style-type: none"> Either turn the jog dial on the main unit or use the automatic search buttons (◀ and ▶) on the remote control unit to select the desired character. Some characters that can be input on this unit cannot be displayed on other models. <p>The shape of the cursor changes each time the CHARACTER button is pressed.</p> <p>[Explanation of cursor:]</p> <p>Capital letter/number input mode Special character input mode</p> <p>Small letter/number input mode</p> <p>[Available characters and numbers]</p> <p>Capital letter/number input mode: ABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789</p> <p>Small letter/number input mode: abcdefghijklmnopqrstuvwxyz0123456789</p> <p>Special character input mode: (Space) ! ~ # \$ % & ' () * + , - . / : ; < = > ? @ [\] ^ _ ` { } ~</p> <ul style="list-style-type: none"> When the manual search forward button (▶) or the ENTER button is pressed, the selected character is set, and the unit is set to the input standby mode for the next character. The cursor can be moved back by pressing the manual search reverse button (◀). Use this to correct input characters.

6	Press the EDIT button to enter the input title.
7	<p>Press the  (eject) button.</p> <ul style="list-style-type: none"> The TOC data is written and the disc is ejected. When TOC writing starts, the " TOC " indicator flashes. Do not shake the main unit or unplug the power cord while the TOC is being written. If the data is not recorded properly, it will not be possible to play the disc. The TOC data can also be recorded by performing the following operations: <ul style="list-style-type: none"> Pressing the power button to set the power to the standby mode. In the stop mode, press the  (stop) button.
	<ul style="list-style-type: none"> To erase a character, move the cursor to that character then press the CLEAR button. To correct a character, first erase it, then input the correct character. It is not possible to write "/" two or more times in a row.

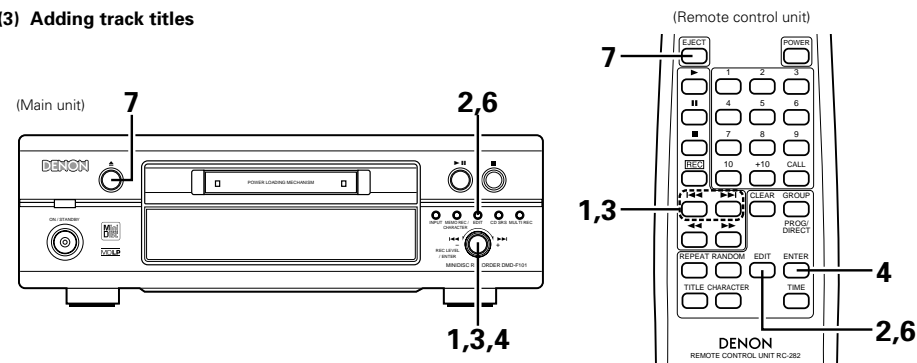
(2) Erasing disc titles




- ① Perform steps 1 and 2 under "(1) Adding disc titles".
 - ② Display "Disc N. Erase?" at step 3.
 - ③ Press the jog dial on the main unit or the ENTER button on the remote control unit. "Complete" is displayed.
 - ④ Perform step 7.
- When "All N. Erase?" is displayed and the ENTER button is pressed at step ② above, the disc title and all the track titles are erased at once.

NOTE:

- Group information is actually written to a disc title information storage area.
If you want to keep the group information don't use above mentioned "(2) Erasing disc titles".

(3) Adding track titles



1	In the stop mode, either turn the jog dial on the main unit or use the automatic search buttons (◀◀ and ▶▶) on the remote control unit to display the track number.
2	<p>Press the EDIT button.</p> <ul style="list-style-type: none"> "Edit Mode" is displayed. In the play, pause or recording modes, press the EDIT button to give a title to the current track.
3	Either turn the jog dial on the main unit or use the automatic search buttons (◀◀ and ▶▶) on the remote control unit to display "Tr Name In?".
4	<p>Press the ENTER button.</p> <ul style="list-style-type: none"> The cursor flashes, indicating the title input standby mode.
5	<p>Input the title.</p> <ul style="list-style-type: none"> For instructions on inputting titles, see step 5 under "Adding disc titles" on Page 26.
6	Press the EDIT button to enter the input track title.
7	<p>Press the  (eject) button.</p> <ul style="list-style-type: none"> The TOC data is written and the disc is ejected. When TOC writing starts, the " TOC " indicator flashes. Do not shake the main unit, or unplug the power cord while the TOC is being written. If the data is not recorded properly, it will not be possible to play the disc. The TOC data can also be recorded by performing the following operations: <ul style="list-style-type: none"> Pressing the power button to set the power to the standby mode. In the stop mode, press the  (stop) button.
	<ul style="list-style-type: none"> In the play or recording mode, finish adding the title before the track ends. If the track changes, the characters that have been input up to that point are no longer valid. Characters input in the recording pause mode are cleared when the  (stop) button is pressed.

NOTES:

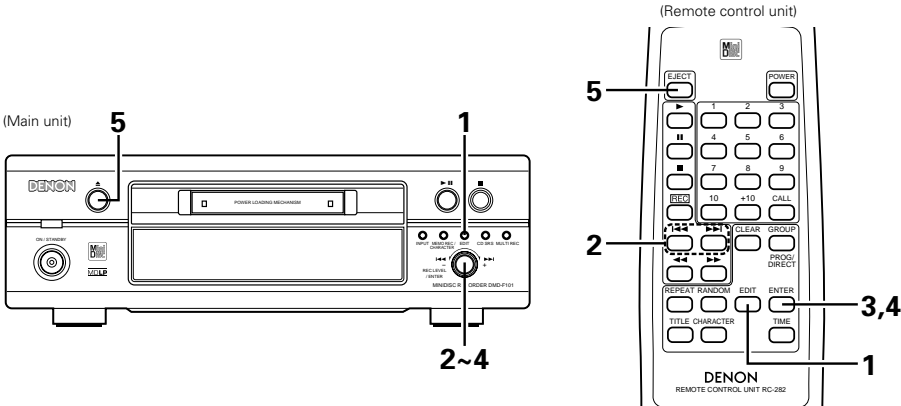
- Up to 100 characters can be input for each track, disc and group title. "Name Full" is displayed if you attempt to input a 101st character.
- If the title operation is performed with a disc containing titles with over 100 characters input on another MiniDisc recorded, the characters over the 100th character are erased.
- A total of approximately 1700 characters can be input for all disc, group and track titles. "Name Full" is displayed if you attempt to input more characters.

(4) Erasing track titles

- ① Perform steps 1 and 2 under "(3) Adding track titles".
- ② Display "TrName Erase?" at step 3.
- ③ Press the jog dial on the main unit or the ENTER button on the remote control unit. "Complete" is displayed.
- ④ Perform step 7.

3. Undoing the last editing operation

- With this function you can undo the editing operation last performed and reset the settings to as they were one step before that point. This comes in handy if you make a mistake when editing.



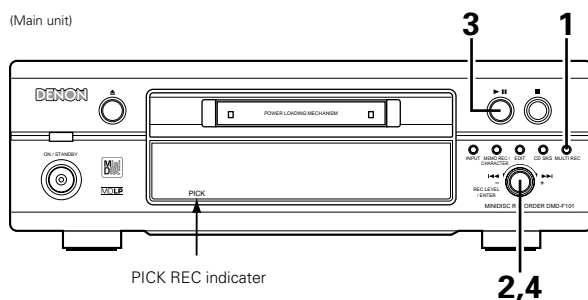
1	In the stop mode, press the EDIT button. <ul style="list-style-type: none">"Edit Mode" is displayed.
2	<p>Either turn the jog dial on the main unit or press one of the automatic search buttons (◀◀ and ▶▶) on the remote control unit.</p> <ul style="list-style-type: none">Display "Undo?".One of the following messages appears, depending on the type of editing operation last performed:<ul style="list-style-type: none">When a track or disc title has been input or changed → "Name Undo?"When a track title, disc title, a single track, all tracks or part of a track has been erased → "Erase Undo?"When a track has been divided → "Divide Undo?"When tracks have been combined → "Combine Undo?"When the move or program move function has been used → "Move Undo?"When a group has been changed or deleted → "Group Undo?"When the group name was not edited when the group was created → "Group Undo?""OO Undo?" is not displayed if no editing operation has been performed or if the undo operation is not possible.The UNDO function cannot be used in the following cases:<ul style="list-style-type: none">Once the TOC data has been rewrittenOnce you have recorded or edited something newAfter a power failureAfter the UNDO operation has been used onceWhen a title has been input in a mode other than the stop modeWhen the disc recovery function has been used
3	Press the ENTER button. <ul style="list-style-type: none">"Undo OK?" is displayed.

4	Press the ENTER button to clear the editing. <ul style="list-style-type: none">"Complete" is displayed.
5	<p>Press the ▲ (eject) button.</p> <ul style="list-style-type: none">The TOC data is written and the disc is ejected.When TOC writing starts, the "TOC" indicator flashes. Do not shake the main unit or unplug the power cord while the TOC is being written. If the data is not recorded properly, it will not be possible to play the disc.The TOC data can also be recorded by performing the following operations:<ul style="list-style-type: none">Pressing the power button to set the power to the standby mode.Pressing the ■ (stop) button in the stop mode.
<ul style="list-style-type: none">To set back to the previous setting, press the CLEAR button.To cancel the undo operation, press the ■ (stop) or CLEAR button before step 4.	

15 PICK REC function

- PICK REC is a function you can pick only the pieces of audio program you want to store on the disc, while listening to audio programs, since the PICK REC recording starts. If you operate before the TOC writing, you can store also all the audio programs during the PICK REC recording.
- The time for which PICK REC recording is possible is the remaining recordable time on the disc.

1. Starting the PICK REC function

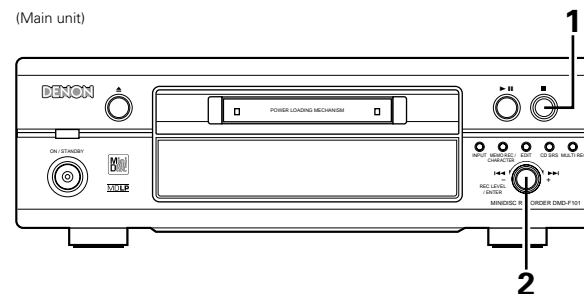


* Perform steps 1 to 6 under “(1) Analog recording” on page 14. (For digital recording, perform steps 1 to 6 under “(2) Digital recording” on page 15.)

1	Press the MULTI REC button twice. <ul style="list-style-type: none"> “<i>Pick Rec</i>” is displayed and the PICK REC indicator flashes.
2	Use the jog dial to adjust the recording level. <ul style="list-style-type: none"> Adjust the REC LEVEL control so that the “OVER” indicator does not light even when the volume is loudest. After adjusting, set the source to be recorded to the standby mode.
3	Press the ► (play/pause) button. <ul style="list-style-type: none"> The PICK REC indicator lights. The PICK REC operation starts and the time for which PICK REC recording is possible is displayed.
4	To record the track during the PICK REC mode, press the ENTER button before the end of the track is reached. <ul style="list-style-type: none"> The PICK REC indicator flashes and that track is recorded. When the track number changes, the PICK REC indicator stops flashing, remaining lit, and the new track is not recorded.
5	If you do not wish to record that track, do not perform any operation. <ul style="list-style-type: none"> Tracks at which the PICK REC indicator is lit are not recorded.
<ul style="list-style-type: none"> When the operation in step 1 is performed in the middle of a track, it is not possible to record that track from the beginning. During the PICK REC operation, the track number may change in the middle of the piece of music. Perform the operation in step 4 for all the tracks you want to record. To cancel recording after performing the operation in step 4, press the ENTER button again before the track number changes. The PICK REC indicator stops flashing, remaining lit, and that track is not recorded. During the PICK REC operation, check the time for which PICK REC recording is possible on the display. (Pay attention to the amount of time remaining.) The stop mode is set automatically once the time for which PICK REC recording is possible is up. Finish writing the data on the disc using the procedure described in “2. Stopping the PICK REC function” on Page 29. Recording cannot be selected if the track number reaches above 35 after the PICK REC operation is started, even if there is still time remaining. (The PICK REC indicator flashes twice.) 	

2. Stopping the PICK REC function

- When stopping the PICK REC function, be sure to perform the operation described below to write the data on the disc.



1	Press the ■ (stop) button. <ul style="list-style-type: none"> Recording stops and the PICK REC indicator turns off. “<i>P. Rec OK?</i>” is displayed. In addition, once the time for which PICK REC recording is possible is up, the stop mode is set automatically and “<i>P. Rec OK?</i>” is displayed.
2	(If the tracks to be recorded have been properly picked) Press the ENTER button. <ul style="list-style-type: none"> “<i>P. Rec Edit</i>” is displayed. Only the tracks for which “record” was selected during the PICK REC mode are stored on the disc. Do not perform any other operation while “<i>P. Rec Edit</i>” is displayed, or the recording may be lost or may not be properly stored on the disc. The TOC data is written once the “<i>P. Rec Edit</i>” display turns off.
3	(If the tracks to be recorded have not been properly picked) Press the ■ (stop) button. <ul style="list-style-type: none"> “<i>P. Rec Cancel</i>” is displayed. All the tracks played since the PICK REC mode was set are stored on the disc.
<ul style="list-style-type: none"> If the power is set to the standby mode by pressing the power operation button during the PICK REC mode, all the tracks played since the PICK REC mode was set are stored on the disc. The “<i>P. Rec OK?</i>” display may appear if the PICK REC mode is canceled several seconds after it is set, but it may happen that no track has been recorded. 	

NOTE:

- When writing the TOC data starts, “**TOC**” indicator flashes. Do not subject this unit to shocks or unplug the power cord while the data is being written, or the recording may be lost or may not be properly stored on the disc.

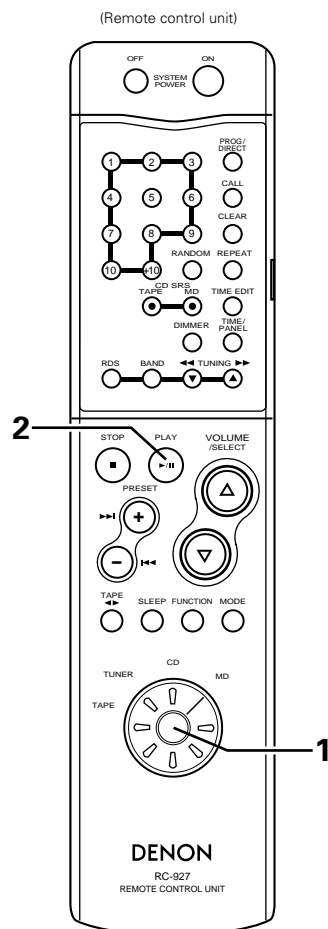
16 SYSTEM FUNCTIONS

(1) System connection

- Operation is even easier when the components in the D-F101 series are connected to the DMD-F101 with system connections. (For instructions on connections, refer to the respective operating instructions of receiver (DRA-F101).
- The system functions will only work when the components of the D-F101 series are connected. They will not work with other components.
- The system function signals for operating the components in the D-F101 series are all output from the receiver (DRA-F101). Thus, when making system connections, be sure to connect the receiver (DRA-F101).

(2) Auto power on function (when connected to the D-F101 series components)

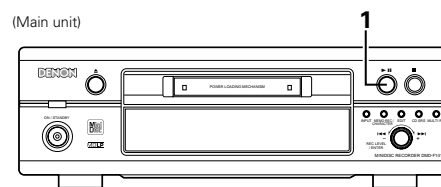
- When the system is set to the standby mode, you can start the playback of disc simply by pressing the play/pause button.



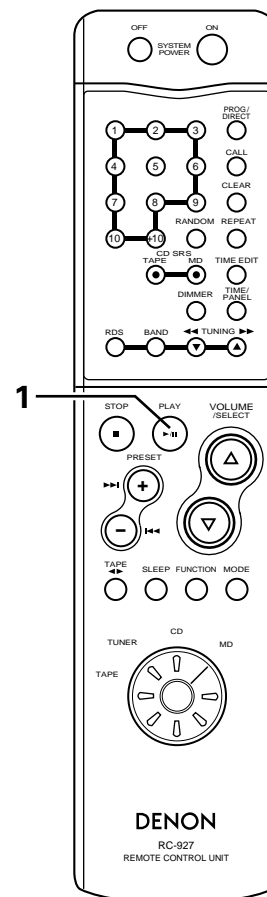
- 1 Set the function select switch on the remote control to "MD" position.
 - 2 Press the play/pause button.
 - System's power turn on and the function of receiver automatically switches to "MD". And then, the MD starts playing.
- * When a MD is loaded with the DMD-F101 in the standby mode, MD playback can be started simply by pressing the play button (▶/||) on the system remote control unit. (RC-927)
- * When the receiver (DRA-F101) is in the standby mode, the system power does not turn on even if the play button (▶/||) on the main unit is pressed.

(3) Auto function selection (when connected to the D-F101 series)

- Use this function to switch the function to "MD" and start playing the disc simply by pressing a single button.



(Remote control unit)

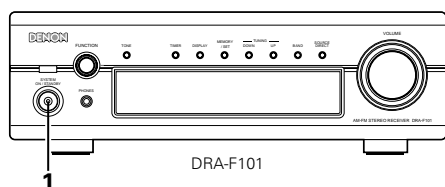


Press the play/pause button while a unit other than the DMD-F101 (CD player or Cassette deck) is playing.

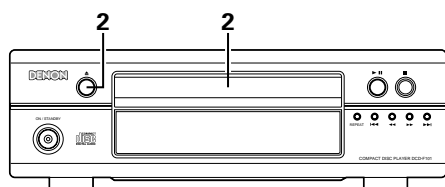
- Playback on the currently playing unit stops.
 - At the same time, the receiver's function switches to "MD" and the MD starts playing.
- * To perform this operation from the system remote control unit, first turn the remote control unit's function select switch and set the function to "MD".

(4) CD synchronized recording (when connected to the DRA-F101 and DCD-F101)

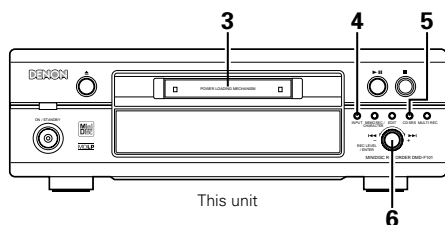
- Use this function to record CDs easily.
- Connect the Digital output terminal of CD player (DCD-F101) to digital input terminal of this unit with connecting cords for digital recording.



DRA-F101

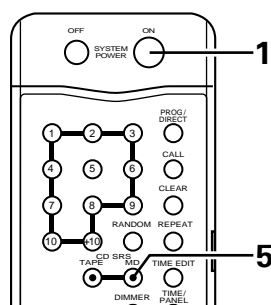


DCD-F101



This unit

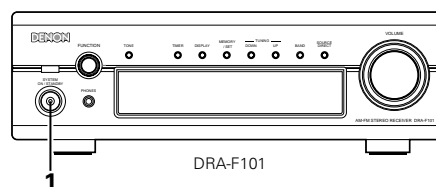
Remote control unit



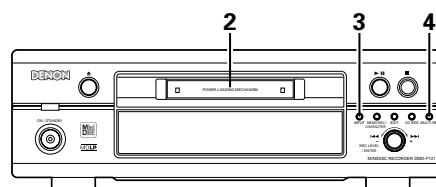
1	Turn on the power of the receiver. • System's power turn on.
2	Load the CD that you want to record to the disc holder of CD player.
3	Load a recordable MiniDisc into the MD slot.
4	Press the INPUT button to select the "Optical-1" or "Optical-2" which is connected to DCD-F101.
5	Press the CD synchro recording button (CD SRS) of this unit to select the synchro recording mode. • Each press of the button switches the unit as described below. <div style="border: 1px dashed black; padding: 5px; margin: 10px 0;"> <p>SRS1disc Rec?: Records one entire CD.</p> <p>SRS Make GP?: Records one entire CD and automatically registers it as one group.</p> <p>SRS1tr Rec?: Records only the designated 1 track of the CD.</p> </div> <p>* A single track can be recorded with the synchro recording function by selecting the desired track using the CD skip buttons (◀ and ▶) then specifying "SRS1tr Rec?" on the MD recorder.</p>
6	Press the ENTER button of the main unit. • Recording starts automatically. This unit and the CD will stop automatically when playback of the CD has ended, as well as when the disc has been fully recorded before the CD has finished playing.
When you want to stop recording, press the ■ (stop) button of this unit or CD player and the TOC recording will be performed.	

(5) Synchronized recording (when connected to D-F101 series)

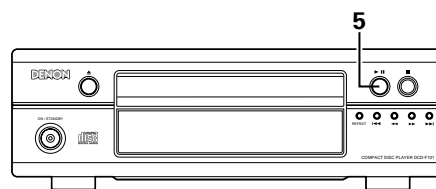
- When the DMD-F101 is set to the recording pause mode, recording starts automatically when the play/pause button (▶/||) on the CD player or Cassette deck is pressed.



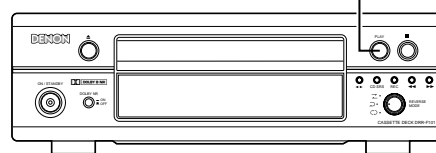
DRA-F101



This unit

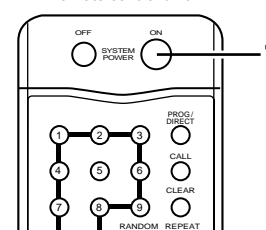


DCD-F101



DRR-F101

Remote control unit



1	Turn on the power of receiver. • System's power will be turn on.
2	Insert a Recordable MiniDisc that is to be recorded into the MD insertion slot.
3	Press the input selector button of this unit to select the source terminal connected the unit that you want to record.
4	Press the record button of DMD-F101 once to set the record pause mode.
5	Press the play/pause button of the CD player and the play button of the Cassette deck. • Recording starts automatically. * CD player or Cassette Deck will stop automatically when playback of the unit has ended and MD is set to record pause mode. * Stopping the recording Press the ■ (stop) button of CD player or Cassette Deck to stop the playback of Discs or cassette tape. This unit set to record pause mode. * When you want to stop the recording, press the ■ (stop) button of MD and the TOC recording is performed.

NOTES:

- When TOC writing starts, the "TOC" indicator flashes. Do not shake the main unit, or unplug the power supply cord while the TOC is being written. If the data is not recorded properly, it will not be possible to play the disc.
- If editing has been performed and the TOC data has not yet been written, "Write UTOC" is displayed and the recording mode cannot be set.

NOTES:

- The CD synchronized recording function will not work if the CD player is set to the program mode. In such case, release the program mode. When in the random play mode or repeat play mode, these modes are released automatically and the CD synchronized recording mode starts.
- When TOC writing starts, the "TOC" indicator flashes. Do not shake the main unit, or unplug the power supply cord while the TOC is being written. If the data is not recorded properly, it will not be possible to play the disc.
- If editing has been performed and the TOC data has not yet been written, "Write UTOC" is displayed and the recording mode cannot be set.
- If you perform synchro recording of CD tracks that are "Copy Prohibited", the tracks are automatically recorded in the analog mode "SCMS Ana. Rec" is displayed. When this happens, the analog recording mode remains set until the synchro recording mode is canceled. For some CDs, the beginning of the track may remain. If this happens, erase the beginning of the track following the procedure at "14-1) Erasing tracks" on page 22.

(6) Timer functions (when connected to the DRA-F101)

- The timer functions of the receiver (DRA-F101) can be used to play cassette tapes or record radio programs ("Air Check") at set times.
- Refer to the operating instruction included with the DRA-F101.

17 MESSAGES

Messages may appear on the display while using this unit. The meanings of these messages are explained below.

Message	Meaning
<i>TOC Reading</i>	TOC is being read.
<i>Blank Disc</i>	Nothing is recorded on the loaded disc.
<i>Complete</i>	Editing is completed.
<i>Copy Prohibit</i>	The SCMS (Serial Copy Management System) prohibits digital copying of that source.
<i>Dig. Unlock</i>	During digital recording, this indicates that signals are not being input properly due to incomplete connection of the digital input jacks, etc.
<i>Can't READ*</i>	Disc is scratched. No TOC is written on the MiniDisc or the data is defective.
<i>Disc Full</i>	There is no remaining time on the disc. There are already 255 tracks on the disc.
<i>Impossible</i>	This indicates that the editing operation is not possible.
<i>No Name</i>	This means that no title has been input.
<i>No Track</i>	The disc has a title but no tracks on it.
<i>Playback Only</i>	This appears when you try to record or edit on a disc for playback only.
<i>Protected</i>	The disc is protected against accidental erasure.
<i>Name Full</i>	The disc names, group names and track names each exceed 100 characters. Or the total number of characters input for the disc names, group names and track names exceeds about 1700 characters.
<i>Tr. Protected</i>	This track cannot be edited.
<i>Disc ?</i>	Data is defective. MiniDisc does not conform to standards.
<i>TOC Err*</i>	Disc is scratched. TOC data cannot be red. MiniDisc does not conform to standards.
<i>Can't Rec</i>	Proper recording was not possible due to shocks or scratched disc.
<i>Temp Over</i>	Temperature is too high.
<i>Defect</i>	Recording is interrupted due to scratched disc.

Message	Meaning
<i>Mech Err*</i>	MiniDisc is not functioning properly.
<i>Not Audio</i>	Non-audio data is recorded on the disc.
<i>UTOC W Err</i>	Proper TOC data could not be created due to scratched disc.
<i>UTOC Err*</i>	TOC data recorded on the disc is not to MiniDisc standards or cannot be read.
<i>Focus Err</i>	Disc is scratched. Player is being used in a shaky, unstable place.
<i>Write UTOC</i>	Editing has been performed but the UTOC data has not been written.

("*" indicates a letter or character.)

18 SYSTEM LIMITATIONS

The recording method used on MiniDisc (MD) systems is different from conventional recording methods. Because of this, there are several system limitations.

Note that the following are not malfunctions.

1. Track number limitations

- Up to 255 tracks can be recorded on blank discs or discs with no tracks on them when the tracks are recorded in order starting from track 1. If a disc has been edited repeatedly, however, it may not be possible to record 255 tracks on the disc.

2. Recording limitations

- If 255 tracks are already recorded on the disc, no further recording is possible, even if the recorded time is less than the maximum recordable time.
- Recording is performed in units of about 2 seconds. About 2 seconds of disc space is used even if the section is less than 2 seconds long. Thus, the actual recordable time becomes shorter.
- If there are scratches on the disc, recording is not possible in the scratched sections, and the recordable time decreases accordingly.
(“Defect” is displayed during recording and the number of tracks on the MiniDisc is automatically increased.)
- When digitally recording CDs, depending on the recording on the CD blank sections of several seconds may be created and the number of tracks may differ from the number on the original CD.
- When the analog A.T.M. function is on and track numbers are added automatically, the track numbers may not be added properly, depending on the original recording.
- In some cases, the remaining time may not decrease when short tracks are erased. This is because sections of 12 seconds and less are ignored when displaying the remaining time on the MD.

3. Editing limitations

- In some cases it is not possible to combine short tracks created through editing.
- There may be breaks in the sound during manual search on MiniDiscs which have been recorded or edited repeatedly.

19 TROUBLESHOOTING

Check the following before assuming there is a problem with the set.

- Are connections proper?
- Are you operating as described in these operating instructions?
- Be sure to check that the main power switch on the rear panel is turned on.

If the set does not seem to be operating properly, check the items listed on the table below.

If the cause of the problem cannot be found, the set may be malfunctioning. Immediately turn off the power and unplug the power cord, then contact your store of purchase or your nearest DENON dealer.

Problem	Cause	Measure	Page
Set does not operate.	<ul style="list-style-type: none"> • No disc is loaded. • Disc is damaged or dirty. 	<ul style="list-style-type: none"> • Load a disc. • Replace with another disc. 	10 4
Disc does not play.	<ul style="list-style-type: none"> • Connections are wrong. • Nothing is recorded on the disc. ("Blank Disc" or "No Track" is displayed.) 	<ul style="list-style-type: none"> • Check the connections. • Replace with a recorded disc. 	5 32
Recording is not possible.	<ul style="list-style-type: none"> • Disc is protected. ("Protected" is displayed.) 	<ul style="list-style-type: none"> • Move the disc's accidental erasure protection tab to cover the hole. 	4,32
	<ul style="list-style-type: none"> • There is no remaining time on the disc. ("Disc Full" is displayed.) 	<ul style="list-style-type: none"> • Replace the disc. If there are any sections you do not need, erase them to increase the recording time. 	32, 22,23
	<ul style="list-style-type: none"> • 255 tracks are already recorded on the disc. ("Disc Full" is displayed.) 	<ul style="list-style-type: none"> • Replace the disc. If there are any tracks you do not need, erase them to increase the recording time. 	32, 22,23
	<ul style="list-style-type: none"> • You are attempting to digitally record a digitally recorded source. ("Copy Prohibit" is displayed.) 	<ul style="list-style-type: none"> • Use analog recording. 	14,32
	<ul style="list-style-type: none"> • The INPUT button is not set properly. • The INPUT LEVEL control is turned down. 	<ul style="list-style-type: none"> • Check the recording input mode. • Adjust the INPUT LEVEL control. 	14,15 14,15

20 MAIN SPECIFICATIONS

■ Type:	MiniDisc digital audio system
■ Wow & flutter:	Below measurable limits ($\pm 0.001\%$ W. peak or less)
■ Sampling frequency:	44.1 kHz
■ Recording method:	Magnetic modulation overwriting
■ Light source:	Semiconductor
■ Power supply:	AC 230 V, 50 Hz
■ Power consumption:	14 W
■ Maximum external dimensions:	250 (width) x 81.5 (height) x 274 (depth) mm (including feet, controls and terminals)
■ Mass:	2.5 kg

■ REMOTE CONTROL UNIT

■ Remote Control System:	RC-282 Infrared pulse system
■ Power Supply:	3 V DC; two R6P (standard size AA) dry cell batteries
■ External Dimensions:	54 (W) x 155 (H) x 29 (D) mm
■ Mass:	100 g including batteries

* Design and specifications are subject to change without notice in the course of product improvement.

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MEMO :

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DENON, Ltd.

16-11, YUSHIMA 3-CHOME, BUNKYU-KU, TOKYO 113-0034, JAPAN
Telephone: (03) 3837-5321

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